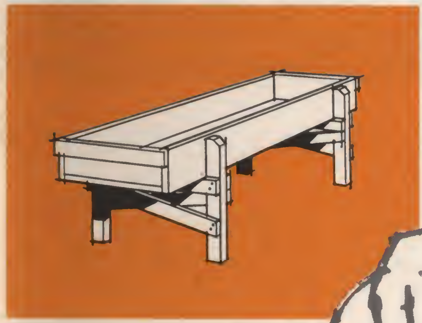
Cattle Barns ››› Sheds

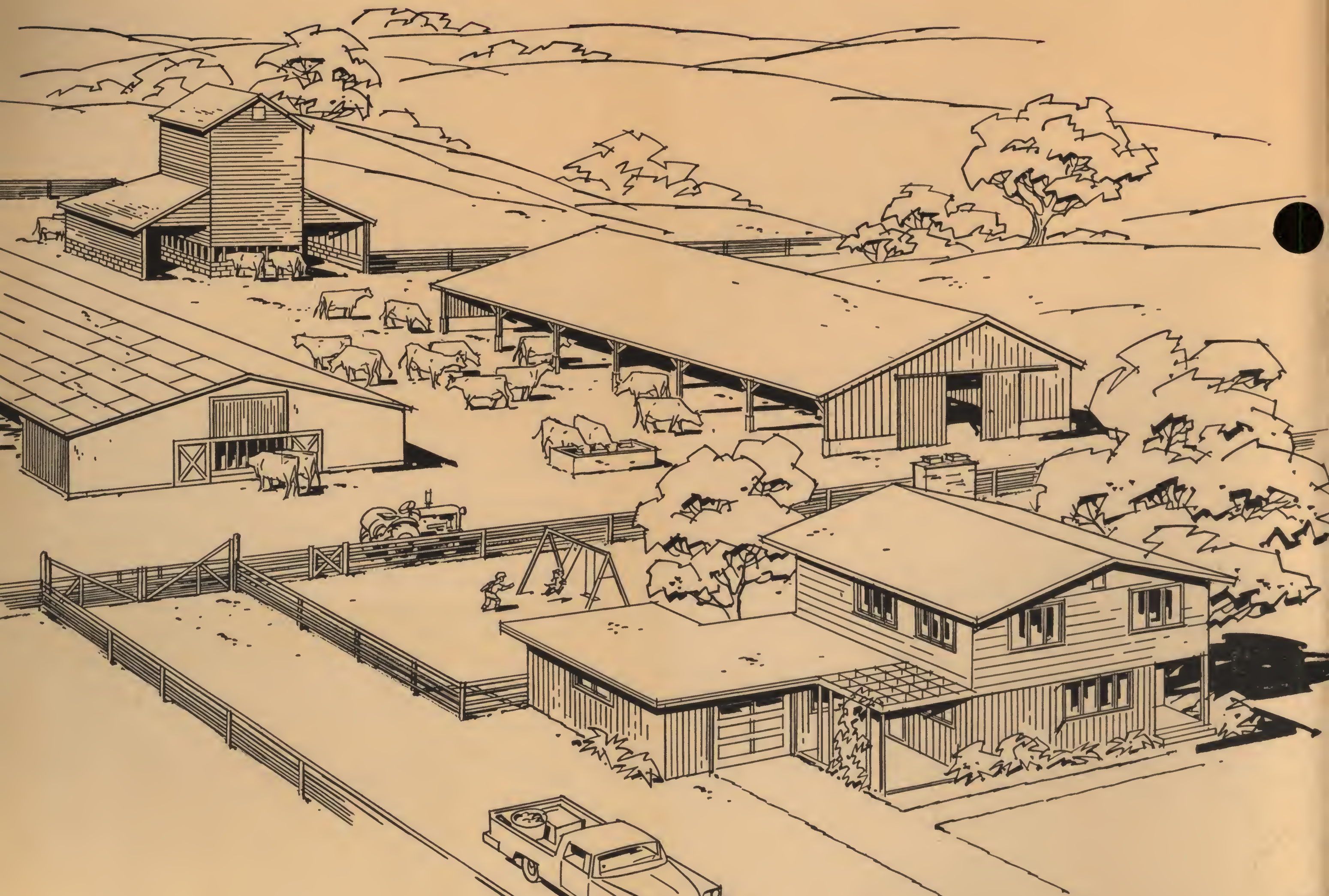
AND EQUIPMENT



ENGINEERED BY

Weyerhaeuser

Cattle Barns



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● Weyerhaeuser 4-Square Farm Designs are especially developed (1) to meet today's farming needs; (2) for proper and profitable housing of livestock; (3) to provide structural stability and exceptional durability; and (4) to take maximum advantage of the fact that lumber produced in Weyerhaeuser sawmills is manufactured in uniform lengths and sizes, with ends and edges already squared, which eliminates needless sawing, fitting, and material waste. In planning any new farm building, you'll find a Weyerhaeuser 4-Square Farm Design gives you unmatched advantages in design, durability, adaptability, economy and simplicity of construction—as well as in appearance.

››› Sheds ››› and Equipment

THESE TAILOR-MADE DESIGNS MEET THE NEEDS OF TODAY—AND TOMORROW!

This book contains descriptions of a variety of cattle barns and sheds, milking rooms, milk houses, and miscellaneous equipment. . . . all designed for labor-saving maintenance and "production line"-type efficiency in use. These plans are available with many variations in detail, so that you may fit them to your farm program and to the existing over-all style of your farm buildings. Most of the buildings are planned so that you can easily add to their length as you increase the scope of your operation.

They are also planned with a minimum of bearing walls or partitions, so that you can quickly and economically remodel them to meet any major change in your farm program. Each one is engineered to withstand wind and weather, with solid footings, proper anchorage, and secure joints and to give maximum protection from rodents and spoilage. Last—but by no means least— each one is designed for easy, economical construction. Weyerhaeuser 4-Square cattle barns, sheds, and equipment go up fast and, with normal maintenance, will last indefinitely.

● *Plans, specifications, and material lists for these and many other farm buildings available at your lumber dealer . . .*

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CATTLE BARNS AND SHEDS

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4-SQUARE
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For Plans and Material Lists

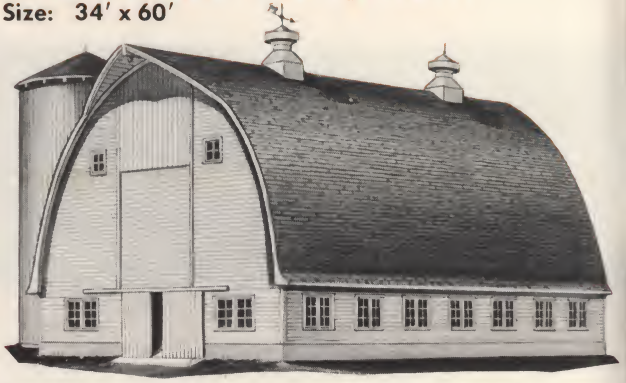
Your local Weyerhaeuser 4-Square Lumber Dealer will be glad to go over blueprints and material lists with you, answer any questions you may have, and help you plan a building program that will fit in with your farm operation.

DAIRY BARNS

NO. 1001-B

Arched Roof Dairy Barn

Size: 34′ x 60′



NO. 1001-A	**Size:** 32′ x 60′
NO. 1001-C	**Size:** 36′ x 60′

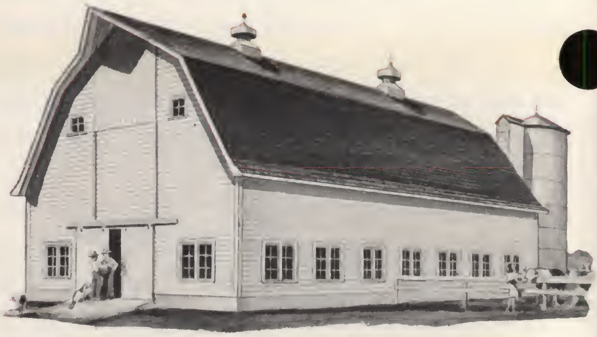
This popular design is available in 3 widths, with lengths variable in 10′ units. Glued laminated wood arch construction provides strength. The large open haymow is designed for storage of loose, chopped, or baled hay, with the correct floor framing specified for each type storage.

Side walls are well insulated with Balsam Wool. Tip-in windows provide no-draft ventilation. Durable Western Red Cedar shingles are used on the roof, and the 1″ siding on the walls assures additional strength and long lasting beauty. Standard windows and built up doors may be located to suit farm requirements.

NO. 1002-B

Gambrel Roof Dairy Barn

Size: 34′ x 60′



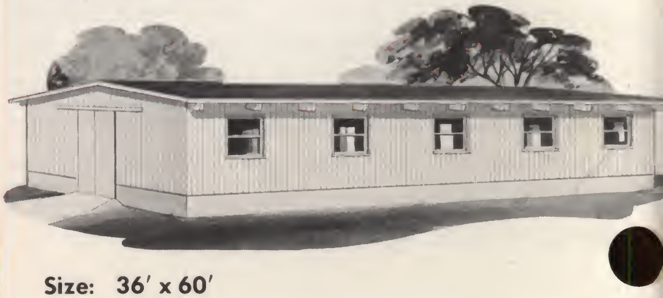
NO. 1002-A	**Size:** 32′ x 60′
NO. 1002-C	**Size:** 36′ x 60′

In this traditional stud, joist, and braced-rafter construction, special attention has been given to wind resistance and sound construction practices. Toe nailing has been avoided wherever possible. In places of extreme stress, metal fasteners have been used as reinforcing ties. Self-supporting braced rafters give the mow extra usable space, which provides for storage of loose, chopped, or baled hay, with the correct structural members specified for each type of storage. Available in 3 widths, the length can vary in 10′ units to fit individual needs.

Capacities: loose hay—1 ton per linear foot; chopped or baled hay—1½ to 2 tons, depending on mow floor framing members.

NO. 1028

Flat Roof • One Story Dairy Barn

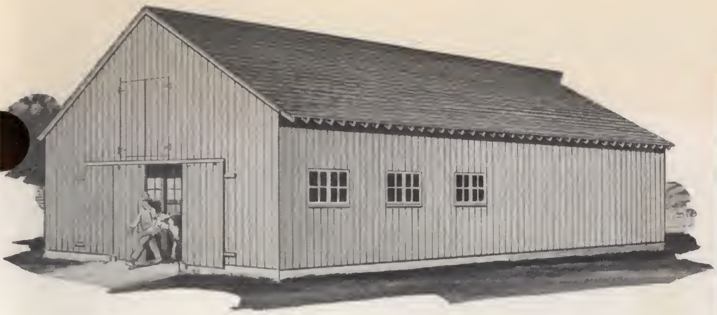


Size: 36′ x 60′

Length can be varied in 12′ units

This one-story barn, with its low roof-line, neat vertical siding, and extra large windows, will make an attractive addition to any farm. The post and beam roof construction gives maximum protection against wind damage, and permits lining of the insulated walls with 4 x 8 sheets of plywood, hardboard, or other panel type materials.

The simplicity of this type of construction makes this building one of the most economical to build. Low maintenance will also make it a great labor-saving addition. It is especially suitable to the farm operation where adequate feed storage is available in nearby buildings.

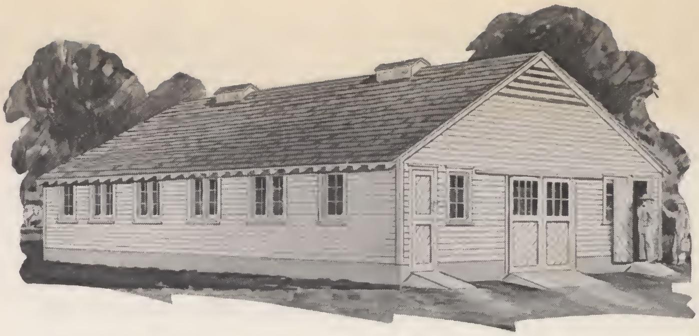


NO. 1021-B

Pole-Type One Story Dairy Barn

Size: 34′ x 60′
Length can be varied in 10′ units

This one-story dairy barn provides at low cost a very practical structure which can be converted to other uses. No bracing is needed with pole framing. Poles set five feet in the ground give strong anchorage and the standard 34′ width makes a variety of floor plans possible. Building plans suggest two sections—one for the dairy herd, the other for hay storage. There is loft storage space over the dairy section.



NO. 1022-B

One Story Dairy Barn

34′ Wide—Basic Length 60′
Length can be varied in 10′ units

The farmer who prefers separate feed storage buildings, will find this one story design offers many advantages. It is low in cost, easy to erect, and features strong, solid construction. Use of the tied-rafter method of construction provides extra rigidity and eliminates obstructing posts, permitting freedom in planning inside arrangements. Stalls can be any width and face in or out.

NO. 1029

Bull Barn

Size: 12′ x 18′

This simple, economical structure enables you to safely isolate the animal in an adequate shelter and exercise yard. The building offers approximately 500 cubic feet of storage for feed and bedding. The manger, feed box and water container can be serviced without entering the pen. The framing diagram on the working drawings indicates the ease of construction. All lumber contacting ground should be pressure-treated to insure long life.

NO. 1030

Calf Barn

Size: 17′ x 48′

This efficient building has six individual calf pens and two larger 5-calf pens to provide shelter for 16 animals. All pens are serviced from the feed aisle which runs the length of the building. The feeding manger for the large pens is in the main aisle . . . access to the individual pens is from a smaller aisle. The feed room provides approximately 700 cubic feet of storage space. The wide roof overhang is designed to admit full sunlight in winter and provide shade for the barn in summer.

MASONRY DAIRY BARNS

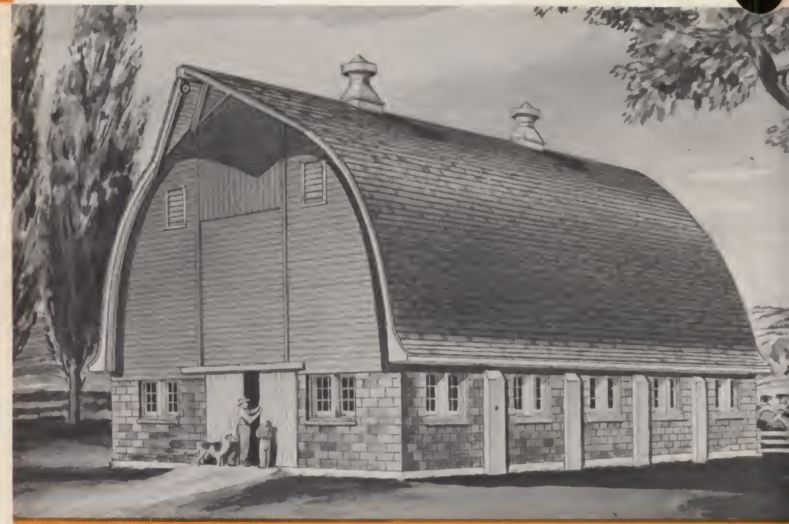
The dairy barn with a masonry wall combined with a wood frame super-structure is still preferred by many dairymen. These masonry walls can be used with arched or gambrel roof construction in either the standard or mow drive style barn. The designs shown have been carefully engineered to give maximum strength against wind pressures. Load carrying members have been selected to insure structural adequacy.

In the arched roof style barns, the framing members are glued laminated wood arches, continuous from sill plate to roof ridge. This gives a mow space that is practically bracefree. The arches are held securely at sill and ridge by metal anchors and ridge plates and bolts.

The gambrel roofs have been planned to assure solid joining and strong bracing. Self-supporting braced-rafters are used in the construction of the gambrel roof to give more usable space to the hay mow. The tile, reinforced concrete and concrete block wall construction calls for strong reinforced buttresses to brace the wall and anchor the building to the foundation.

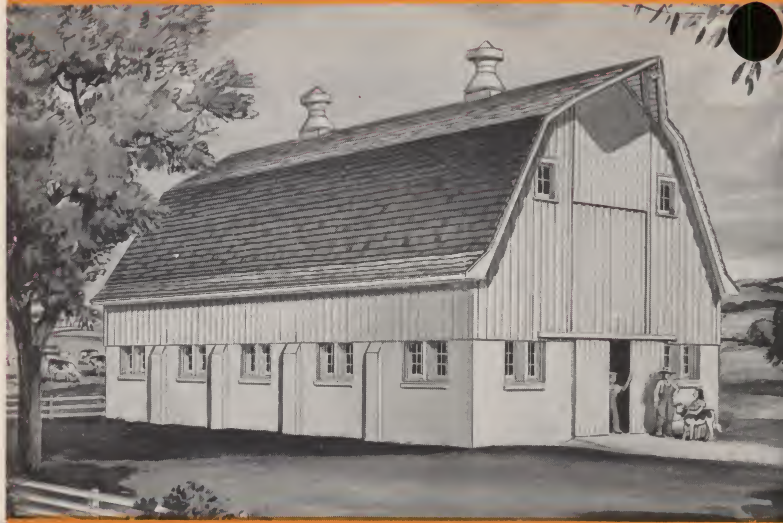
All working drawings require structural members to lap over one another and to be nailed or bolted, rather than using insecure butting or toe nailing. The ends of the barns are strongly reinforced by jack braces to withstand heavy loads. Metal braces are used as reinforcing ties where necessary. In the mow drive barns, the door framing is specially designed and braced to form a rigid structural element.

Foot Note: All designs are available in vertical or horizontal siding and either insulated or not insulated construction. Lengths may be varied in 12′ units.



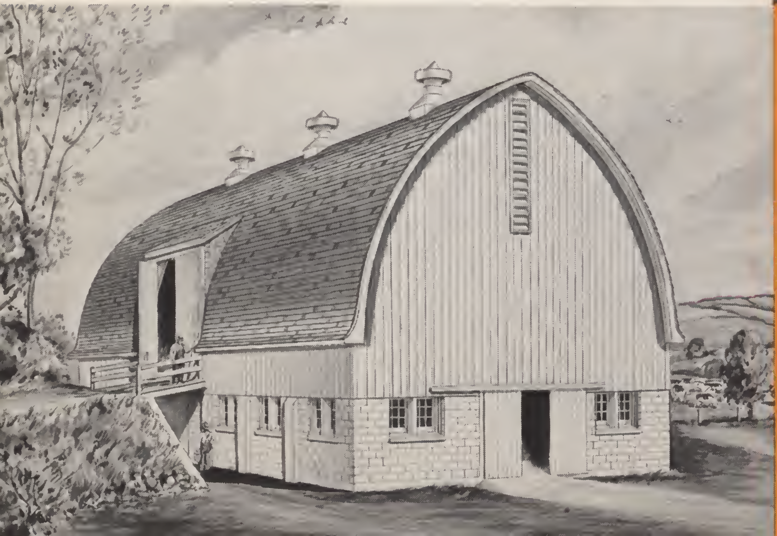
ARCHED ROOF DAIRY BARN
8″ or 12″ Tile Wall
NO. 1031

Sizes: 36′, 38′ and 40′ x 60′



GAMBREL ROOF DAIRY BARN
6″ or 8″ Reinforced Concrete Wall
NO. 1032

Sizes: 36′, 38′ and 40′ x 60′



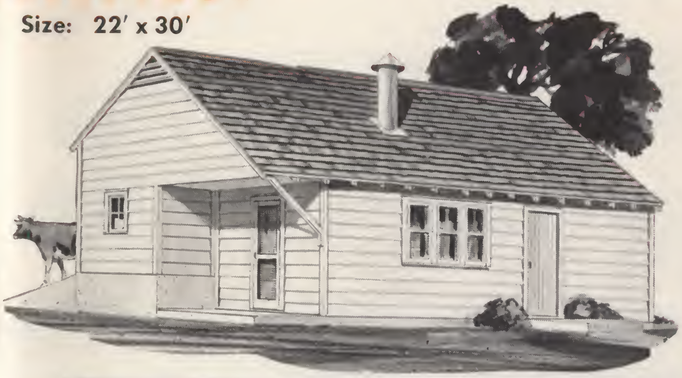
ARCHED ROOF MOW DRIVE DAIRY BARN
8″ or 12″ Concrete Block Wall
NO. 1033

Sizes: 36′, 38′ and 40′ x 84′

MILKING PARLORS AND MILK HOUSES

NO. 1004

Size: 22′ x 30′

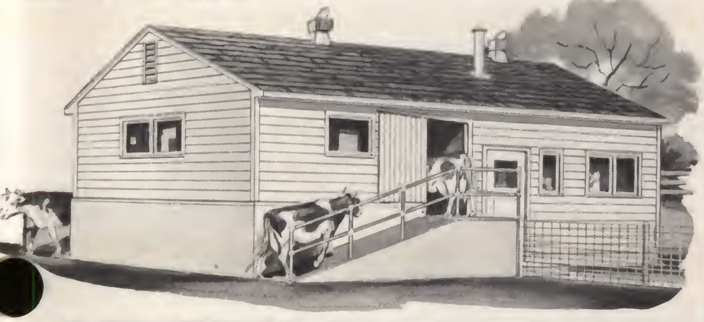


MILKING PARLOR AND MILK HOUSE

This three-stall milking parlor, with milk house, saves chore time and reduces operating costs, yet is planned so that one man can easily take care of the entire operation. Approved measurements are used throughout. The milk house section is arranged for fast, easy, milk cooling and equipment clean-up. It is well lighted and has good drainage facilities.

NO. 1005

Size: 34′-0″ x 20′-6″

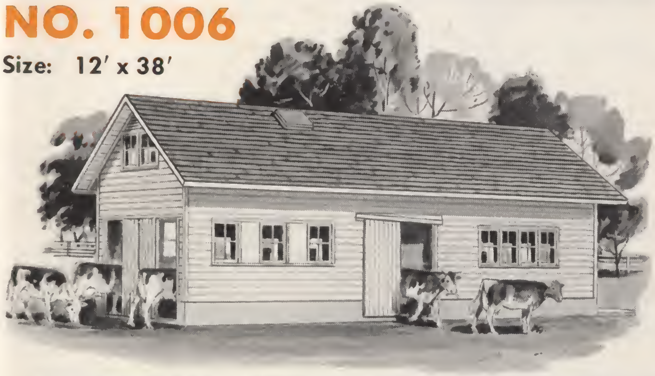


MILKING PARLOR AND MILK HOUSE

This efficient, modern building is designed so that one man can milk 25 cows per hour, using 2 milking units. The 3 milking stalls are arranged in a compact "U" shape on raised platform. The milk house section is separated from the milking parlor by a utility room with hot water heater and lavatory, and a dust tight feed room.

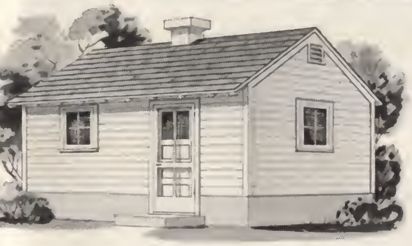
NO. 1006

Size: 12′ x 38′



WALK THRU MILKING PARLOR

This building is designed for pipe line and bulk cooling systems. Overhead feed storage provides for gravity flow of feed to the stalls. The 4 walk-through stalls are at grade level to eliminate ramps for cattle. Work space is four steps down, this is truly a labor-saving addition to any farm.



NO. 3103

MILK HOUSE

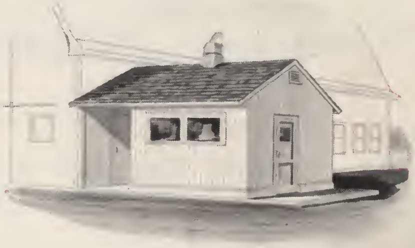
Size: 12′ x 18′

This well insulated milk house features good window area, flush doors, and removable metal-top work ounters for easy cleaning. Concrete floors and ading platforms are specified. This milk house may be constructed as a separate building or attached to the barn.

NO. 3105

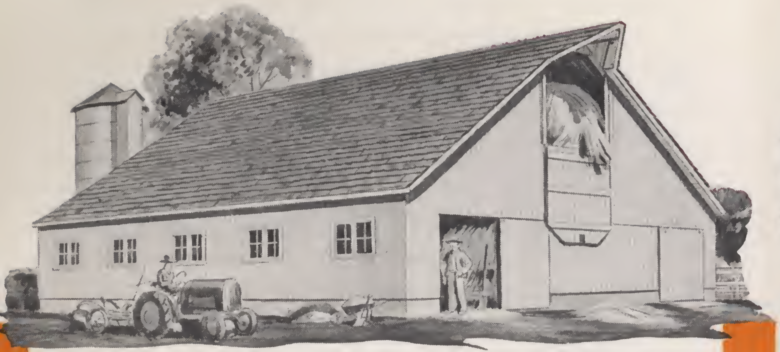
MILK HOUSE

Size: 18′ x 12′



This milk house is planned for placement next to the barn with a connecting covered passageway. Well insulated, this house is also designed to provide abundant natural light. An added feature is the modern washroom and toilet.

CATTLE SHEDS

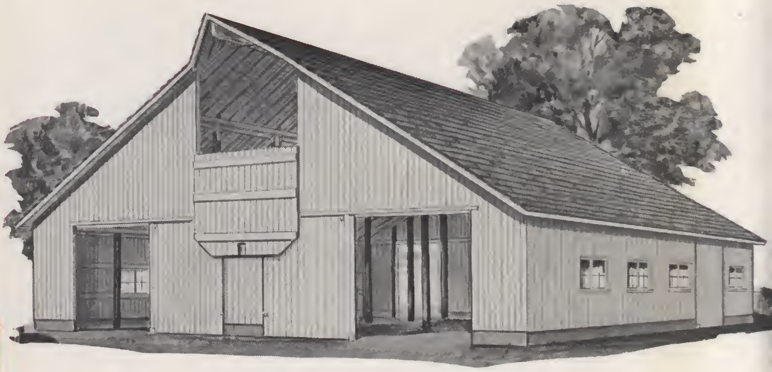


NO. 1101

Timber Frame Feeder Barn

Size: 54′ x 60′

Here's a spacious building that provides excellent shelter and is adaptable for many uses. Designed as a "drop center" type barn, it is engineered for great strength, durability and long life. Economy in building is provided by ready-to-use lumber in standard sizes which reduces building time and material waste. This barn can be lengthened in 12′ units if desired.

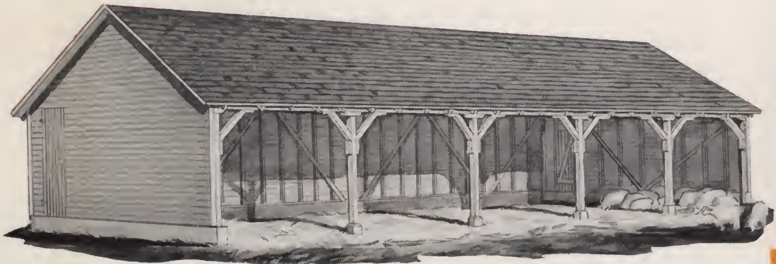


NO. 1102

Pole-Type U. M. U. Feeder Barn

Size: 54′ x 60′ Length can be varied in 10′ units

This "drop center" type barn has wide adaptability for many uses. Properly treated poles of cedar form the frame and foundation. With these poles set firmly in the ground, the barn is exceptionally wind-resistant. Ground leveling is unnecessary. Uniformity is gained and the roof made level by girts nailed across the poles. Standard sizes are specified to reduce building time and material waste.

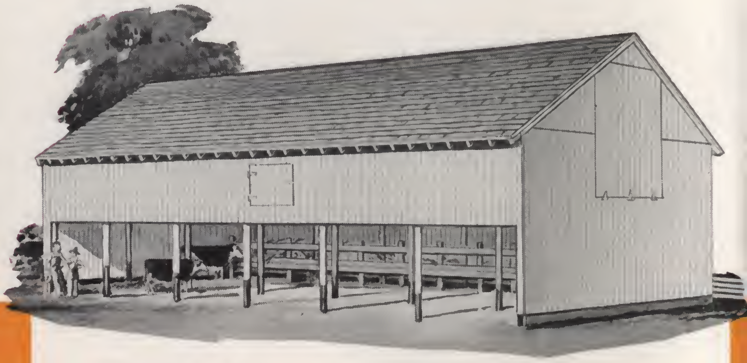


NO. 1130

Open Front Livestock Shed

Size: 20′ x 50′ Length can be varied in 10′ units

This sturdy, simply constructed shed provides shelter at low dollar cost. Feed racks, bunks and watering troughs can be installed and calf or lambing pens built. The open side is high enough so that bedding can be pitched in from a hayrack. Many other uses can be made of this structure. The 10′ width between posts makes it easy to move machinery in and out.

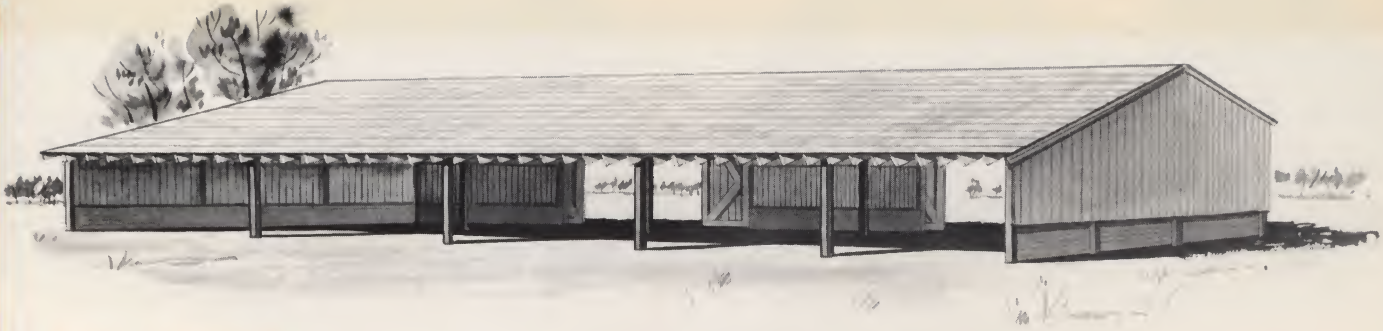


NO. 1131

Pole-Type Loft Storage Livestock Shed

Size: 25′ x 60′ Length can be varied in 10′ units

The loft storage space in this livestock shed saves a great deal of time and work, and is low-cost storage. Storage space has large hay doors at each end. Hay drops into self-feeder bunks along the north wall. Storage capacity is ¾ ton of baled hay per linear foot. Pole construction is used for framing and foundation to obtain rigidity at low cost.

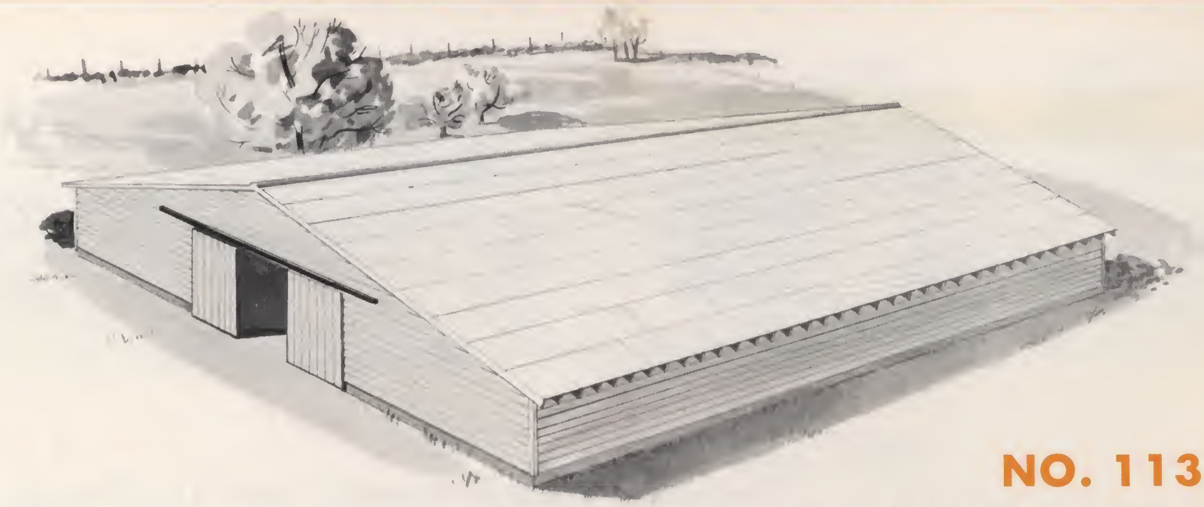


NO. 1138

*Tapered Timber Loafing Barn

Size: 36′ x 80′

Every detail of this squared-timber barn has been planned for economical construction, low cost maintenance, and long life. The trussed roof provides large clear-span, open interior areas. Each bay is 16′ x 24′. Two large rear doors permit easy cleaning. Posts and interior lower wall planks are treated for longer life. Roof sheathing is spaced for durable Red Cedar shingles, thus saving material costs. The square shape of *tapered timbers offers flat surfaces, giving more area for nailing or bolting. Placed to block prevailing winds, this loafing barn will pay for itself time and again.



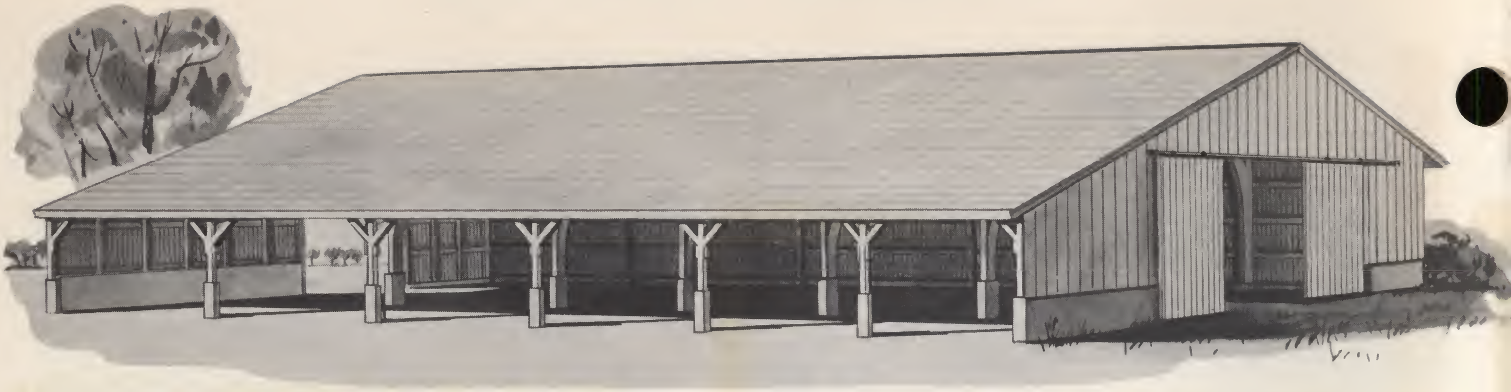
NO. 1139

*Tapered Timber 56′ Utility Building

Size: 56′ x 68′

Demand for an attractive, low-cost, easily erected and *versatile* building prompted this advanced design. In addition to use as a loafing barn, it is ideal for machinery storage, poultry, crop storage, sheep, etc.—adaptations for 10 different uses are included in the working drawings. *Tapered timbers are used for straight, uniform framing posts, giving an interior open span of over 25′. With stud walls, building is easy to insulate and line, and to place window and door openings to fit needs. Plywood roof has been specified for fast erection and labor-saving maintenance.

*Where tapered timbers are not available, standard timbers or poles may be substituted.

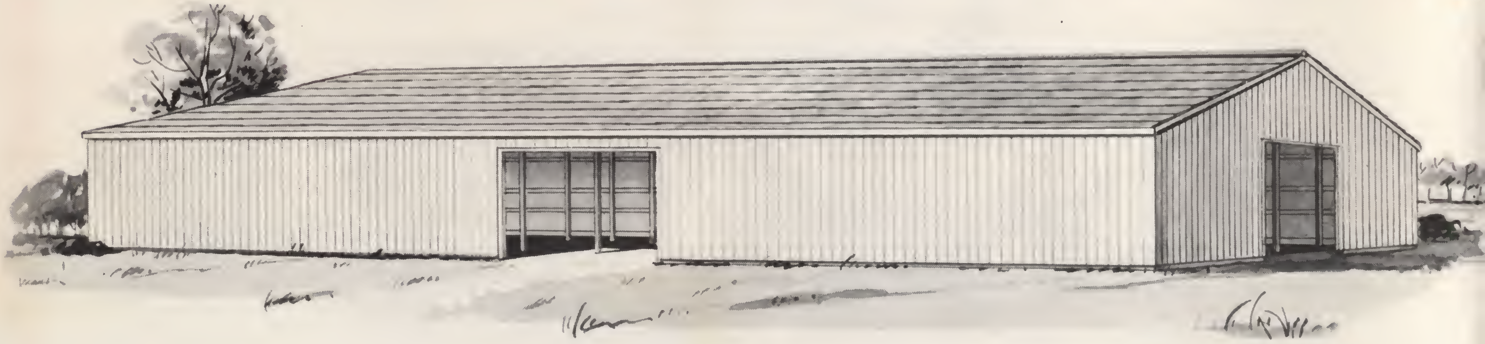


NO. 1136

Arch Frame Loafing-Feeder Barn

Size: 52′ x 72′

NEW. Here is a design that gives you the clear-span length and width you want at moderate cost. Overall width is 52′—the interior clear-span is 40′. A newly designed laminated arch provides straight sidewalls so that side doors can be installed whereever desired. Foundation walls are concrete. The dirt floor is slanted to the front—out under the long overhang—to provide good drainage. Wide doors at each end—plus the large open interior areas make it easy to bring in feed, easy to clean, easy to adapt to changing needs.



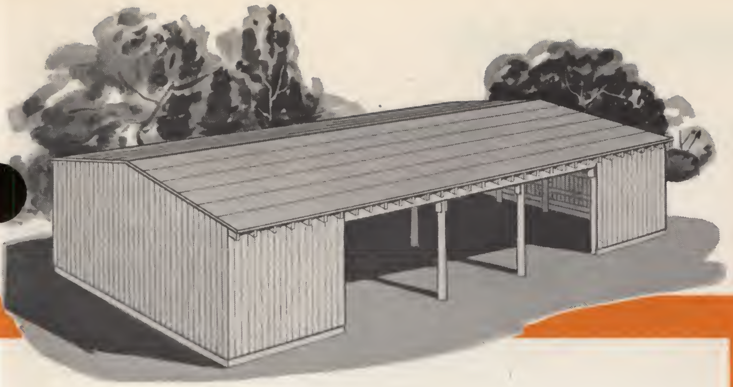
NO. 1137

**Tapered Timber Feeder and Loafing Barn*

Size: 52′ x 112′

This new design is engineered for *tapered timber construction. Wide doors are placed on all four sides for easy accessibility and adaptability to many uses (loafing, feeding, storage). The elimination of concrete floors saves construction costs. The treated timbers assure exceptionally long life. Wide spacing of posts gives maximum maneuverability of machinery. The square shape of *tapered timbers offers flat surfaces, giving more area for nailing or bolting. Good proportions make the building an attractive and serviceable addition to your existing buildings.

*Where tapered timbers are not available, standard timbers or poles may be substituted.

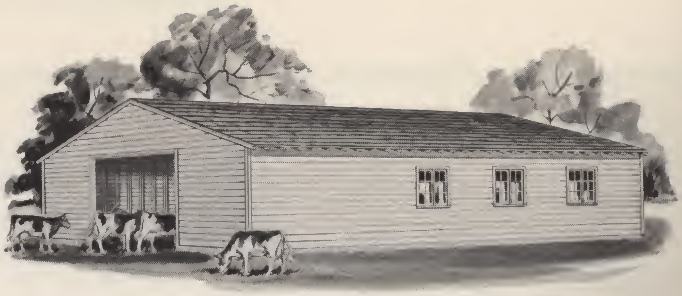


NO. 1133

Pole-Type Multi-Plan Building

Size: 65′ x 18′, 65′ x 36′, 65′ x 54′, 65′ x 72′

● Pole frame construction eliminates foundation and reduces need for bracing. Poles set 5 feet in the ground give strong anchorage to this durable, wind-resistant structure. Siding and roof sheathing of wood provide an attractive building that will be warm in winter and cool in summer. Floor plan may be arranged to suit owner's requirements. Each set of blueprints includes all 4 size variations. Building is variable in 13′ length units and 18′ width units.

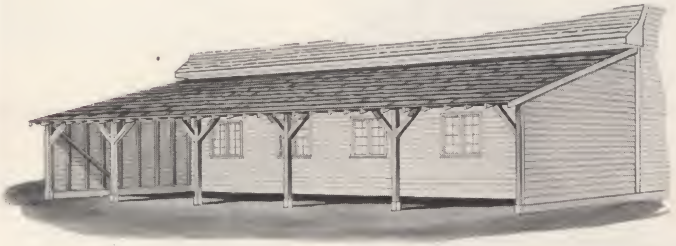


NO. 1134

Feeder Barn-Machinery Shelter

Size: 48′ x 60′

● This building can be used either for livestock or as a machine shed. Suggestions for building the doors and windows for either use are included. At the center of the building the ceiling height is 14′, providing plenty of room for hay storage or storage of big machinery. The floor area of over 2,800 square feet has only two interior posts to offer maximum flexibility in floor arrangement. Rigid trussed roof construction withstands heavy snow and wind loads.

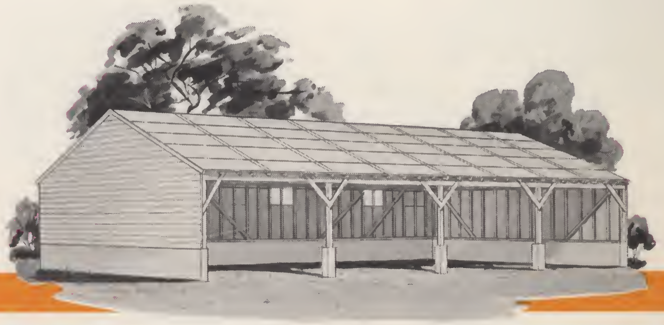


NO. 1026-1, 2

Barn Additions

Size: 18′ x 60′

● Here is a fast economical way to provide more space for livestock or machinery storage. This addition—either open or closed type—can be built along the side of an existing barn. Length can be varied to suit any barn. The open-type design is simple post and beam construction which supports outer edge of roof. Braced rafters are placed 2′ on center in both types, and economically covered with spaced roof sheathing and durable cedar shingles.



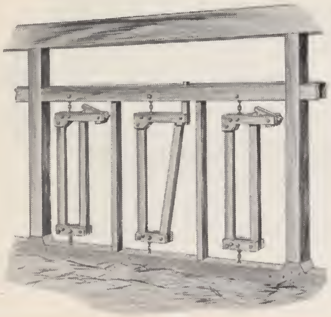
NO. 1135

Trussed Roof Cattle Shed

Size: 32′ x 64′

● Big mechanical equipment is easily maneuvered in this well-designed cattle shed and cleaning and maintenance are simplified. Front openings are 16′ by 8′-6″ to provide easy access. The trussed roof and 9½′ ceiling height provide a post-free interior. Durable wood siding assures long life for the building. A 3′ concrete foundation wall resists hard usage encountered in a cattle shed. Economical plywood provides a durable, rigid roof. Rear ventilating doors cool shed during summer months.

EQUIPMENT ITEMS

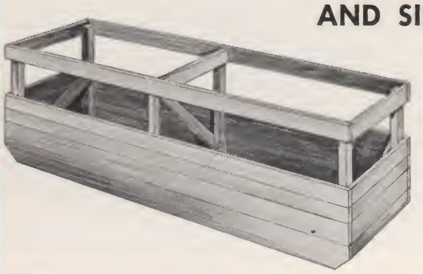


S-1102

CATTLE STANCHION

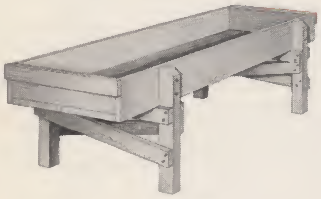
This stanchion opens and closes easily and latch at the top locks the side piece into place automatically when it is closed. It can be fastened at the top to a header between posts of the building and either anchored into the curb or a timber sill.

S-1103 HAY, GRAIN AND SILAGE FEEDING BUNK



A strong bunk mounted on skids. 16′ long; 4′ wide; 4′-6″ high. Easy to build, easy to move, and hard to tip over. Designed so that stock can feed from all sides and keep heads in feeder to prevent waste. Built from standard lumber items.

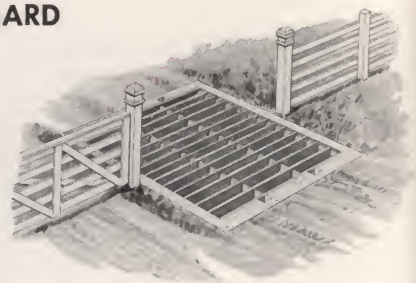
S-1109 CATTLE FEED BUNK

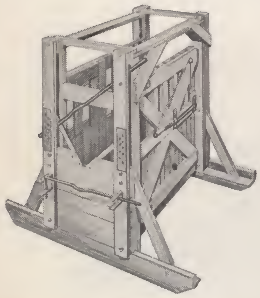


This rigidly framed feed bunk is made of 2″ planking with 4x4 legs. 10′ long; 3′-4½″ wide; box is 2′-6″ wide inside. Narrow width permits cattle to feed from one side only and still clean entire box. Bolted joints for rigid construction.

S-1110 CATTLE GUARD

A practical cattle guard. 8′ long; 12′ wide. Strong enough to support tractor, truck or combine. Planks, set loosely to prevent injury to animals, are easily removed. Pit side walls of concrete. Requires little carpenter work to build.



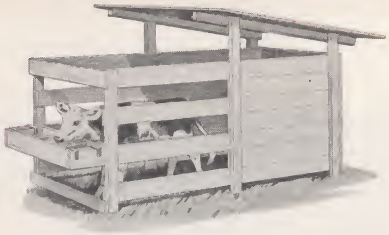


S-1118

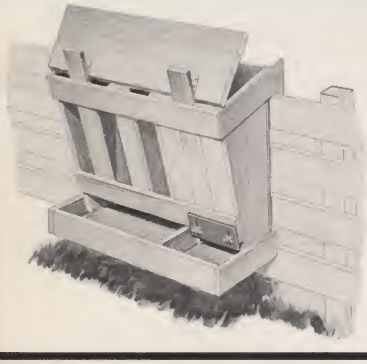
CATTLE SQUEEZE AND DEHORNING CHUTE

Permits handling and treating animals in perfect safety. Side gate can be hinged from either front or back. When front hinge is used, gate forms a squeeze—when hinged from the back, it becomes a chute for dehorning and treating.

S-1119 PORTABLE CALF PEN



Easily moved to cle ground, this pen p tects calves from other animals and provides good shade with ventilation. Manger is accessible and easily removed. Easy to build with standard in-stock lumber items.



S-1120

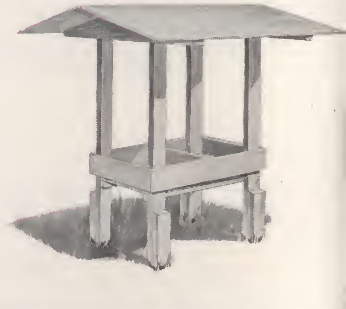
PORTABLE SELF-FEEDER

This low cost feeder hangs on pen partition or fence—holds hay or grain. Feed hopper has adjustable opening. Easily built with 1″ boards. Top hinges for filling feeder.

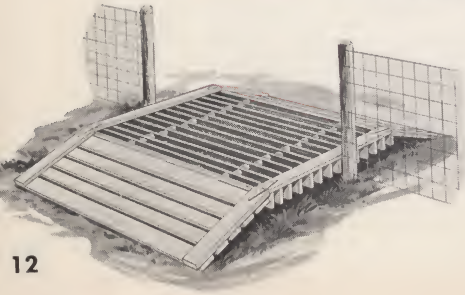
S-1121

MINERAL FEEDING BOX

This portable box with wide roof protects food from rain and dirt. Has two compartments for different minerals, which are accessible from either side.

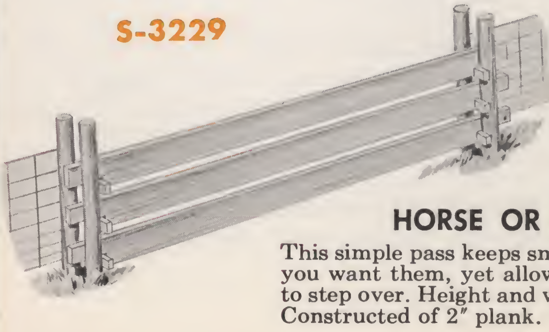


S-1132 MOVABLE CATTLE GUARD



Here's a simple, safe and portable cattle guard that eliminates the need for opening and closing gates. No excavation or masonry required. The ramps fold up and lay on top of guard when guard is being moved.

S-3229



HORSE OR CATTLE PASS

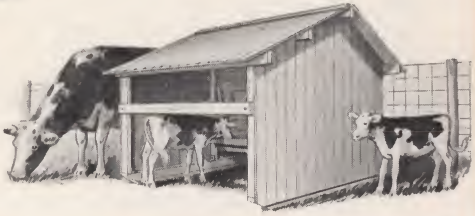
This simple pass keeps small animals where you want them, yet allows horses or cattle to step over. Height and width are variable. Constructed of 2″ plank.

EQUIPMENT ITEMS

1112

CALF CREEP FEEDER

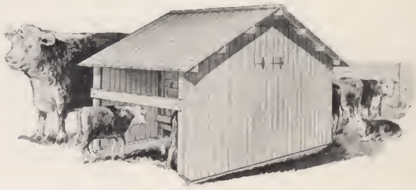
Built with skids for easy portability, this well designed feeder serves 25 calves. Adjustable entrance bar prevents large animals entering. A practical aid in stock raising.



S-1113

CALF CREEP FEEDER

An efficient and roomy creep feeder. 12′ long, 6′ wide, 6′-6″ high. Will serve up to 50 calves. Has 12′ of trough. Skid-mounted for easy moving. Hinged door on both ends for loading hopper.



S-1114

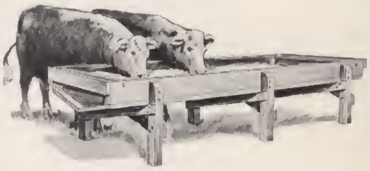
CATTLE SELF-FEEDER

Capacity of this self-feeder is 200 bushels or 12½ bushels per linear foot. 16′ long, 6′ wide, 8′ high. Skid-mounted for easy portability. Simple hopper construction permits a minimum of special cutting.

S-1115

V-BOTTOM FEED BUNK

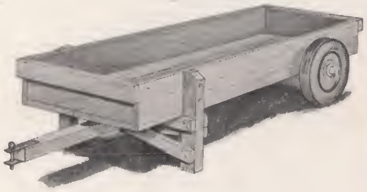
Ideal for silage and rough feeds. 14′ long, 3′-6″ wide, 2′-6″ high. V-shape permits feed to slide toward center of bunk. Keeps feed within easy reach of stock and prevents waste caused by pushing feed over the side.



S-1124

WHEEL MOUNTED FEED BUNK

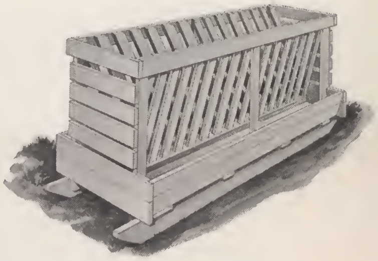
Easily moved from lot to lot, this wheel-mounted feed bunk will save time and simplify feed handling. Simple to construct using standard in-stock materials.



S-1127

HAY AND SILAGE FEEDER

Ample feeding space is provided by this efficient farm-tested feeder. Measuring 14′ x 5′, the feeder is easily built with standard dimension lumber throughout. Plans show complete details with cutting list for each piece.



S-1128

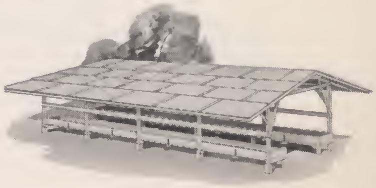
MINERAL FEEDER

Excellent protection for the feeding of minerals is provided with this well-braced covered unit. Trough provides maximum protection against weather, can be easily removed for cleaning. Open roof extends two feet.

S-1129

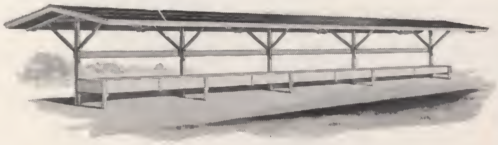
DOUBLE ROW FEED BUNK

The center driveway of this efficient unit permits easy mechanical filling of the feed bunks. Overhanging roof protects feeding animals. Plans specify plywood roof and post-truss spacing of 12′ with intermediate rafters every two feet. Unit can be constructed in 12′ sections to accommodate any herd requirements.



S-1130

SINGLE ROW FEED BUNKS

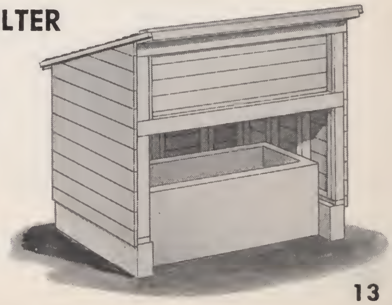


Cattle and feed are well protected under the gable roof of this structure. Mechanical filling can be used and the bunks extended in 12′ units to fit any herd size. A shed-type 8′ unit with standard feed bunk and a wider gable-type unit with a 3½′ feed bunk are also shown on plans.

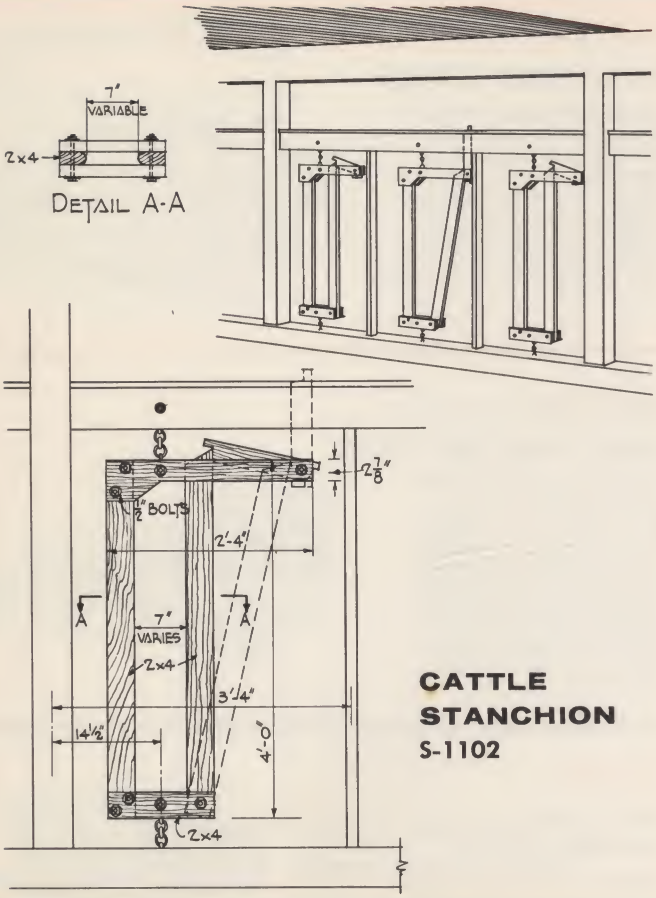
S-1131

WATER TROUGH SHELTER

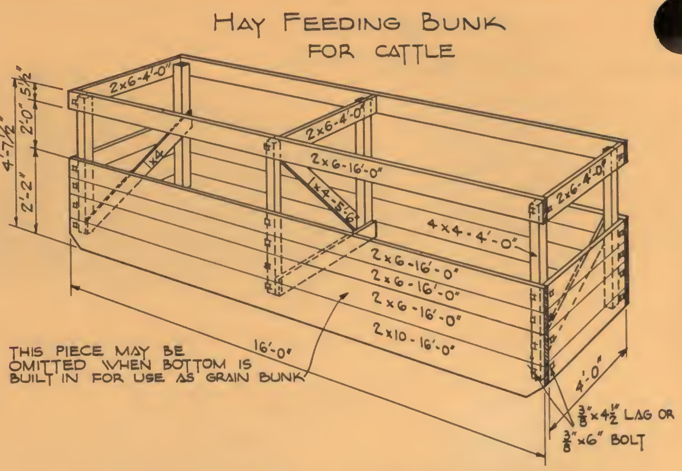
This simple-to-build shelter has space for small oil or gas heater facilities to help prevent freezing of the water. Hinged front makes filling easy. Guard prevents livestock from entering the shelter. The unit is 6′ x 8′ in size with a 7′ opening.

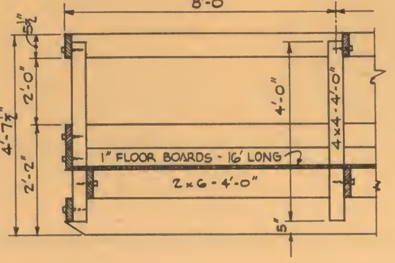


WORKING DRAWINGS

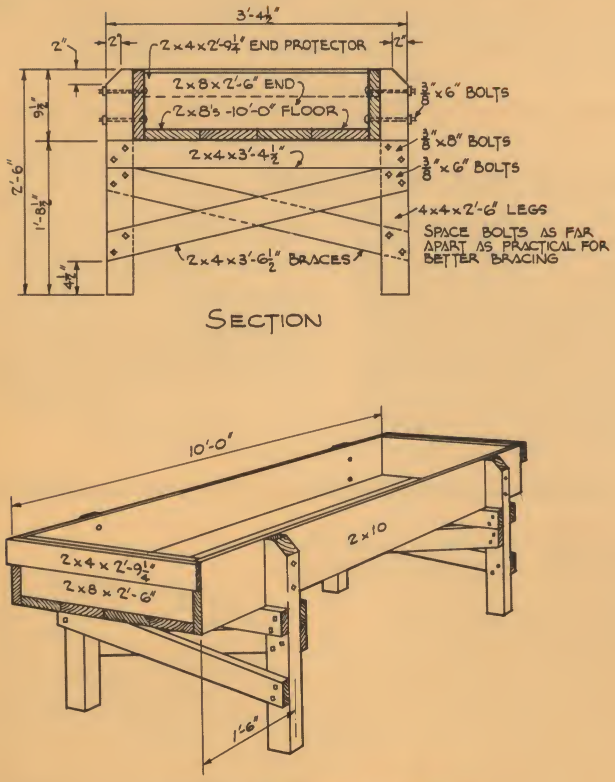


CATTLE STANCHION
S-1102

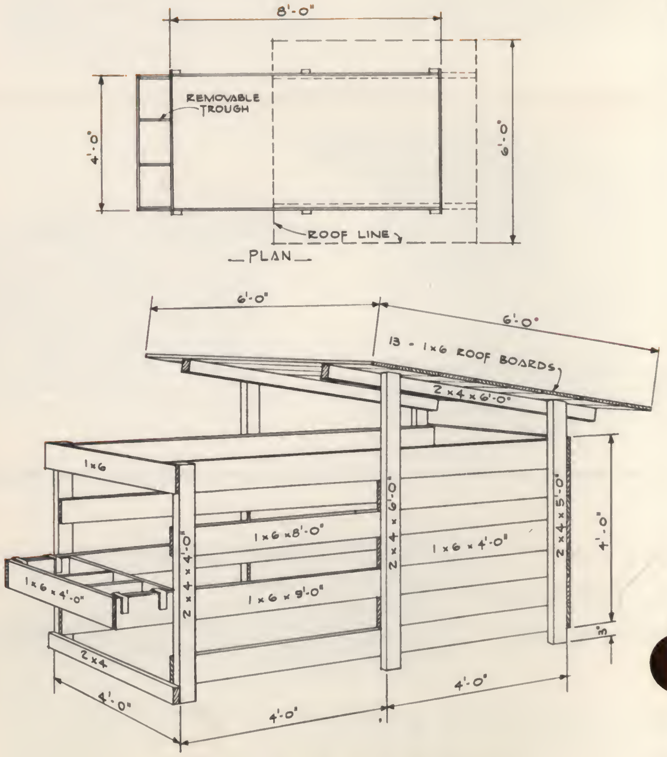




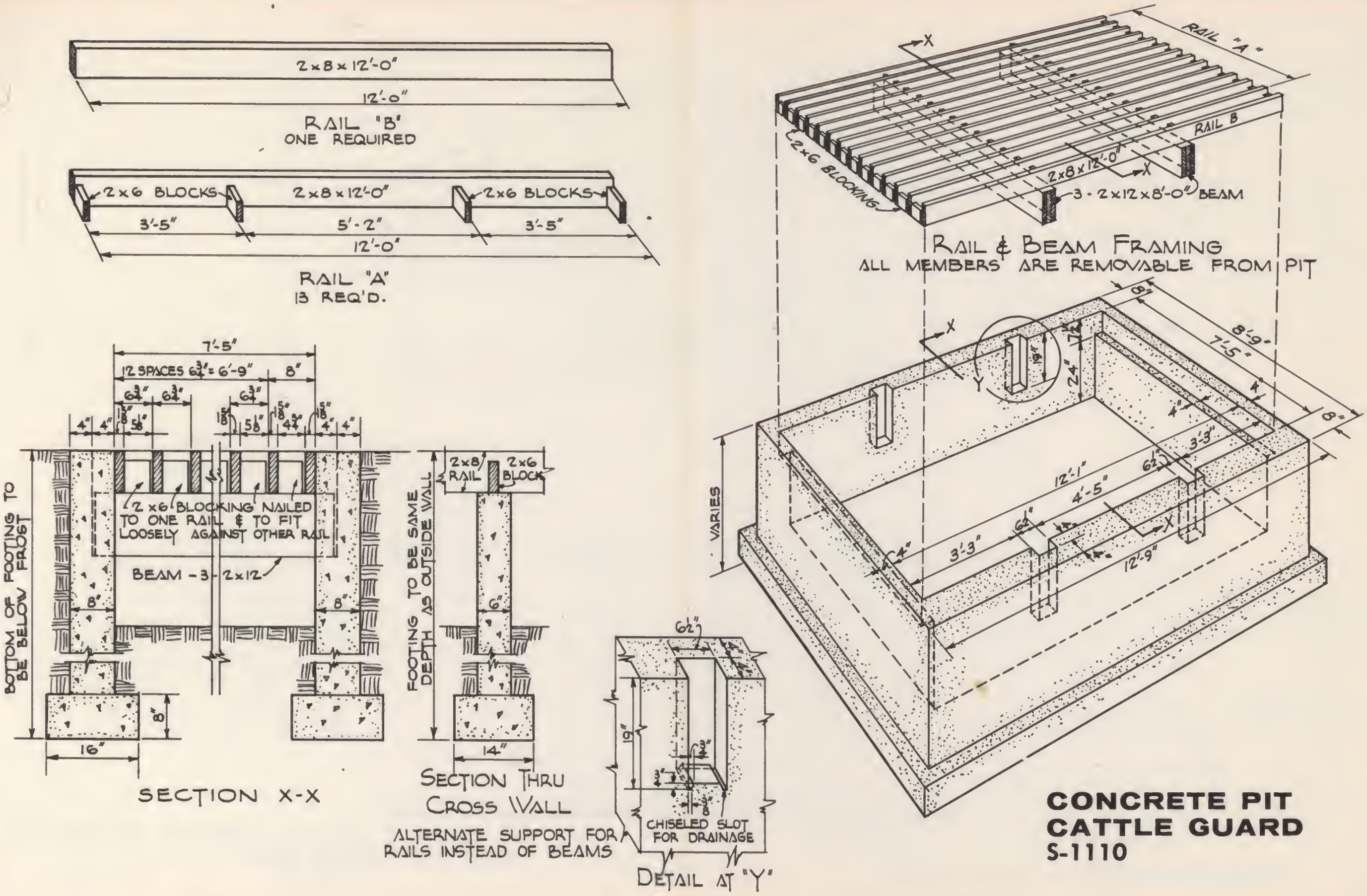
GRAIN & SILAGE FEEDING BUNK
(Construction same as hay feeding bunk with floor added.)
S-1103



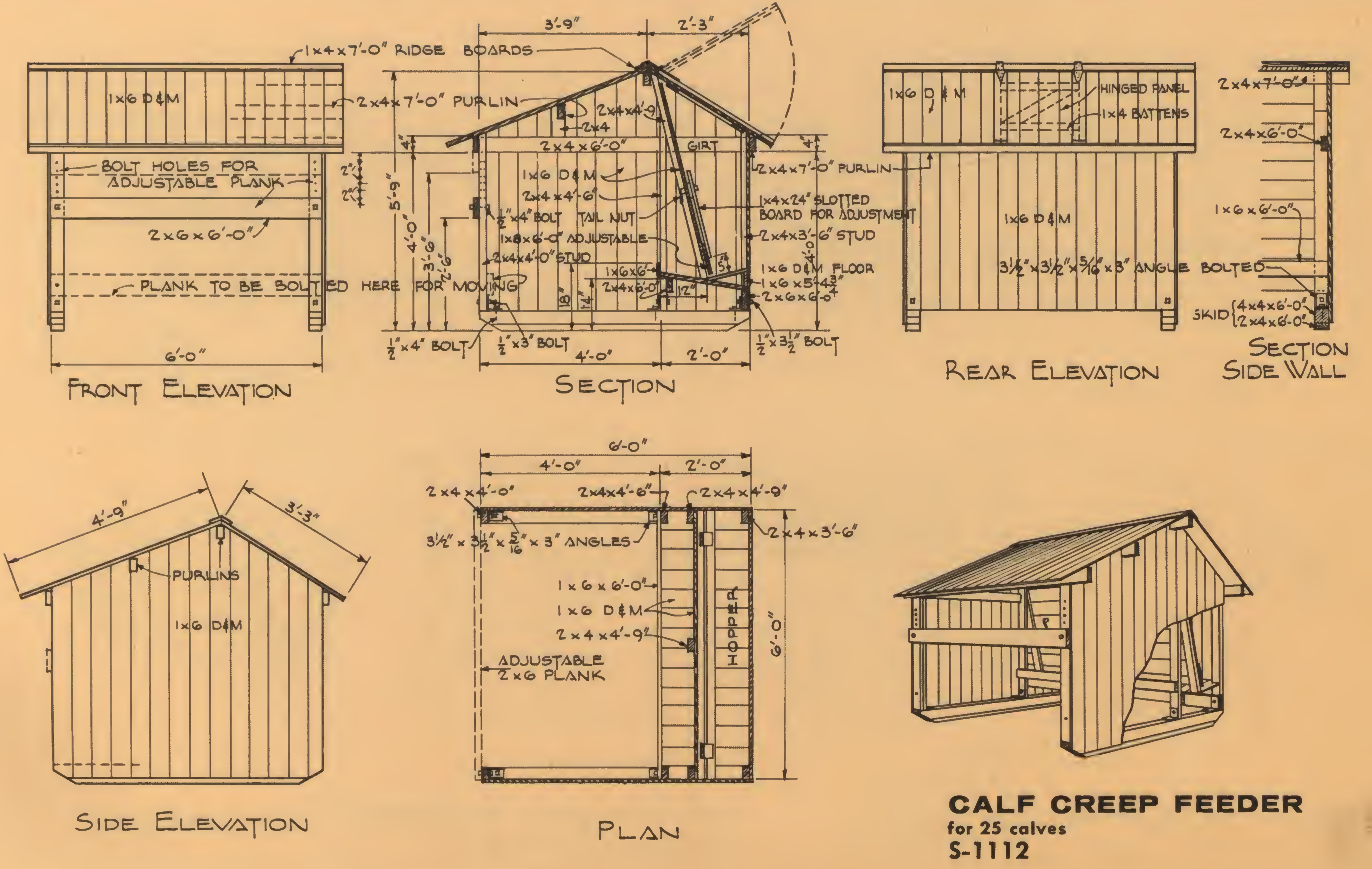
CATTLE FEED BUNK
S-1109



PORTABLE CALF PEN
S-1119

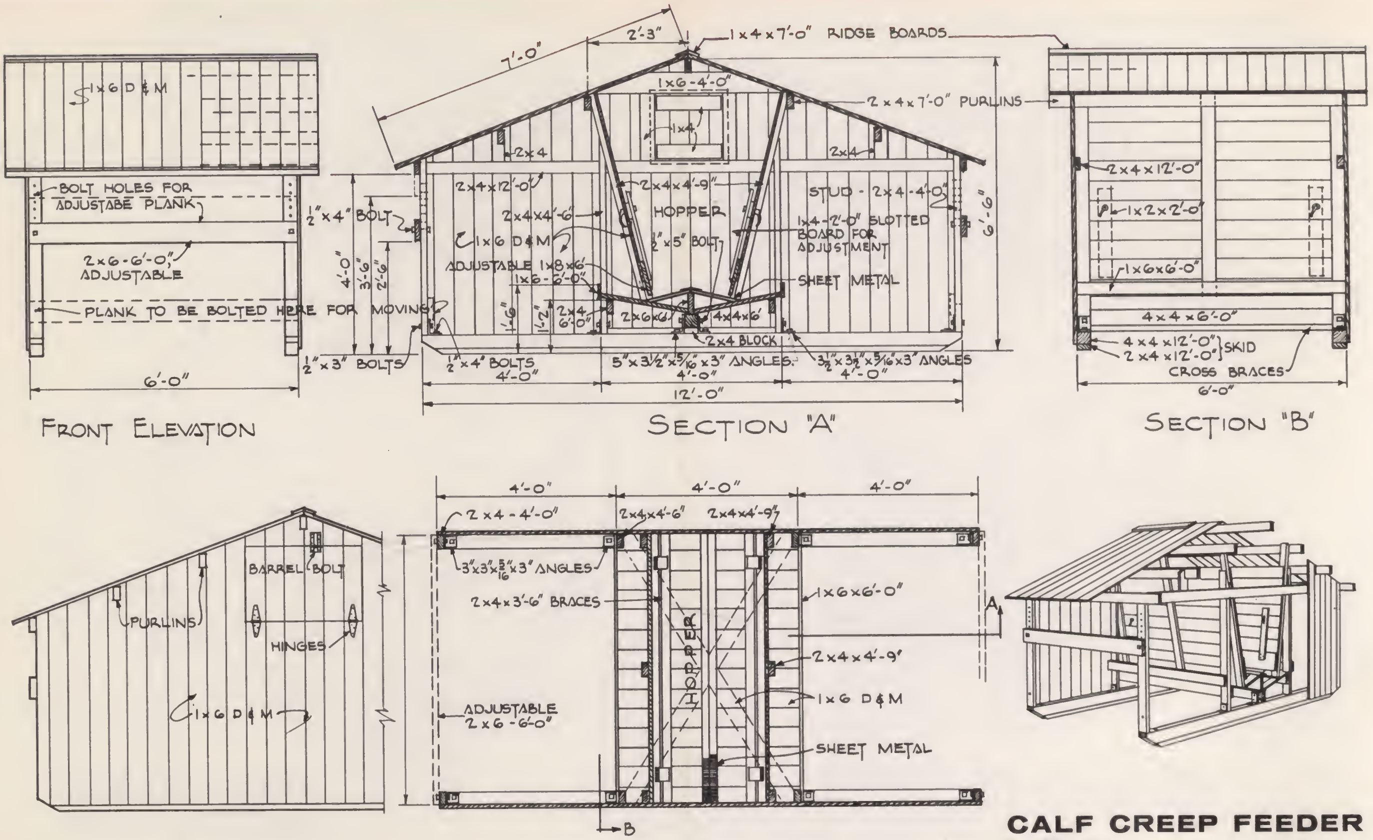


CONCRETE PIT CATTLE GUARD
S-1110



CALF CREEP FEEDER
for 25 calves
S-1112

WORKING DRAWINGS



FRONT ELEVATION

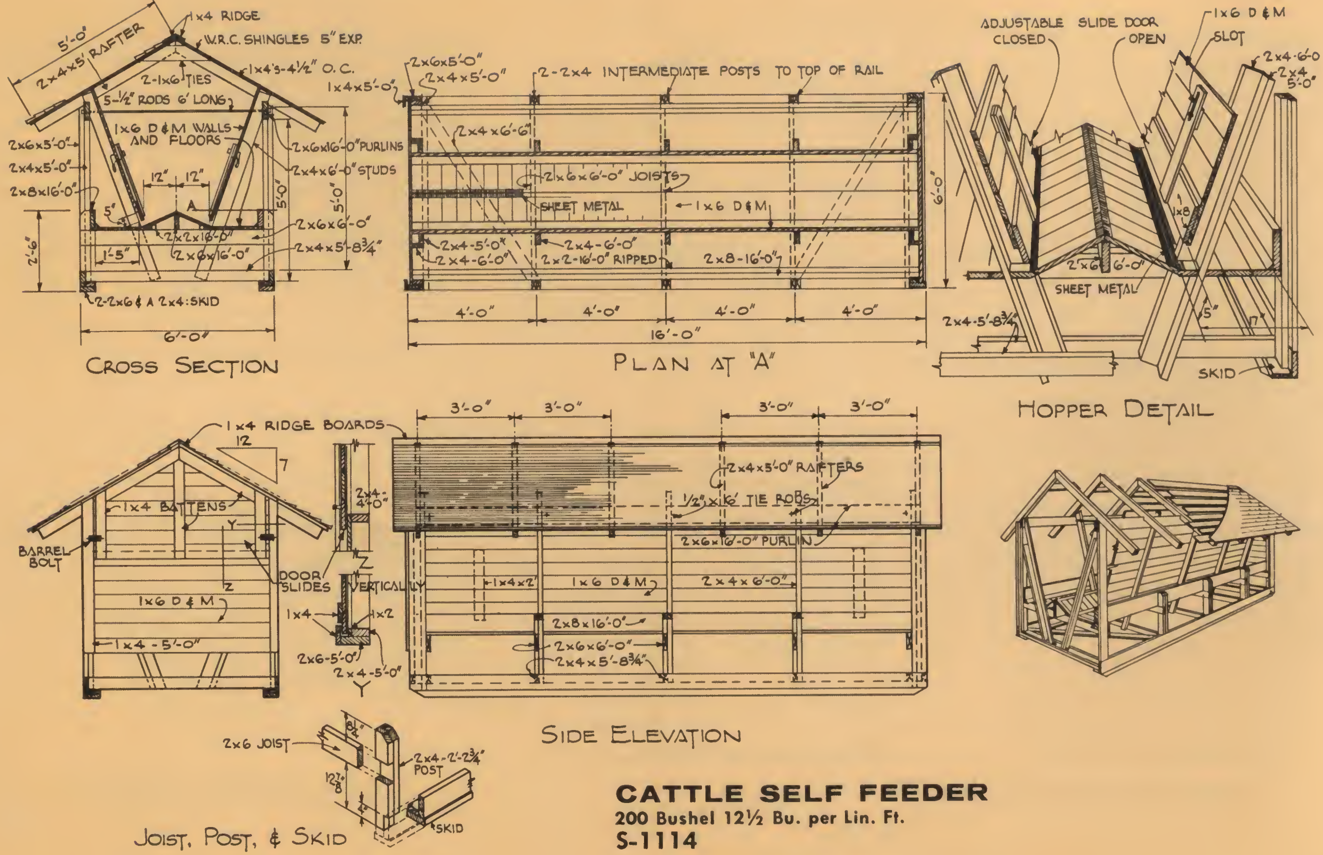
SECTION "A"

SECTION "B"

SIDE ELEVATION

PLAN

CALF CREEP FEEDER
for 50 calves
S-1113



CROSS SECTION

PLAN AT "A"

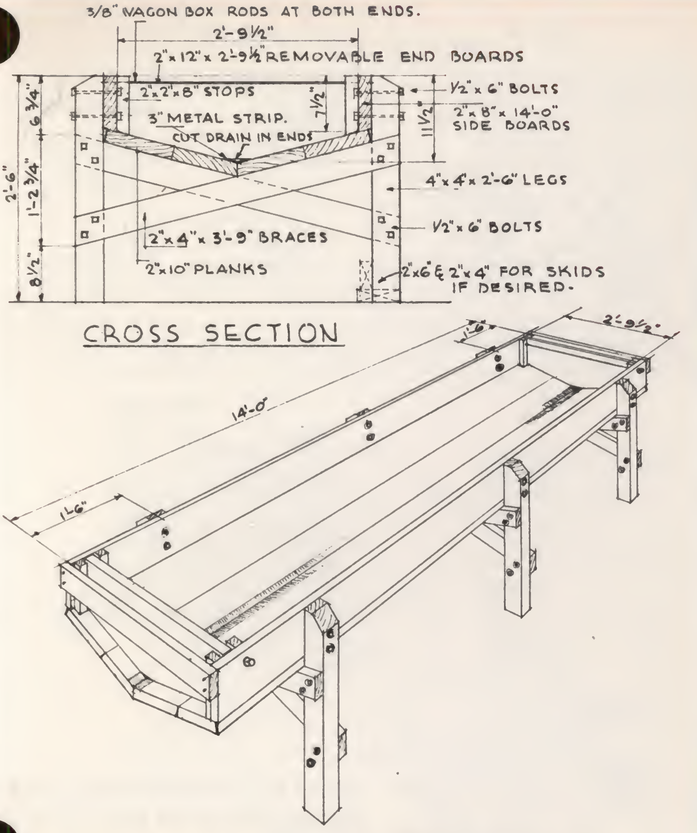
HOPPER DETAIL

SIDE ELEVATION

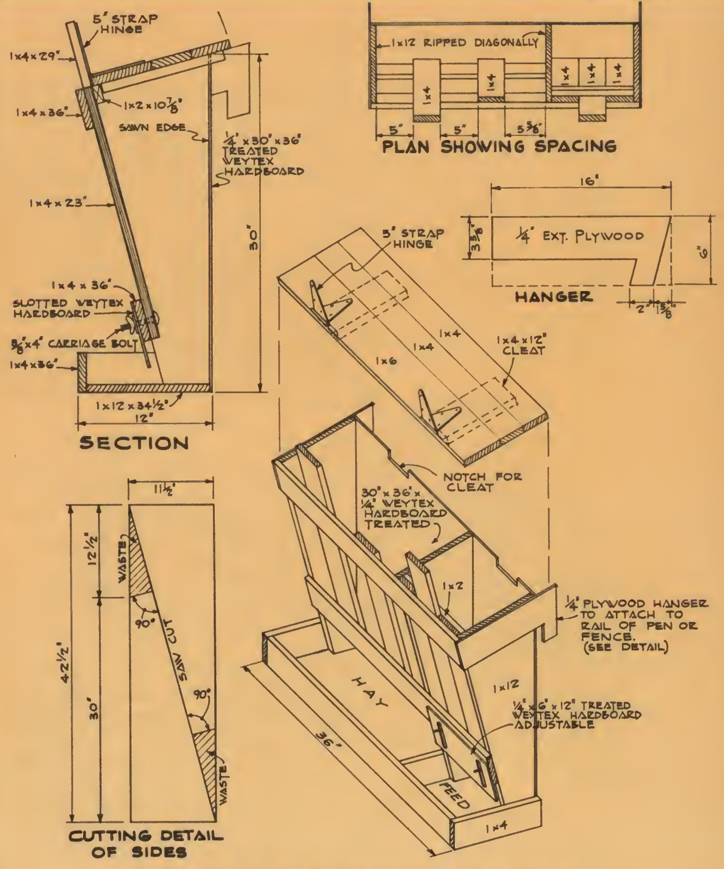
JOIST, POST, & SKID

CATTLE SELF FEEDER
200 Bushel 12½ Bu. per Lin. Ft.
S-1114

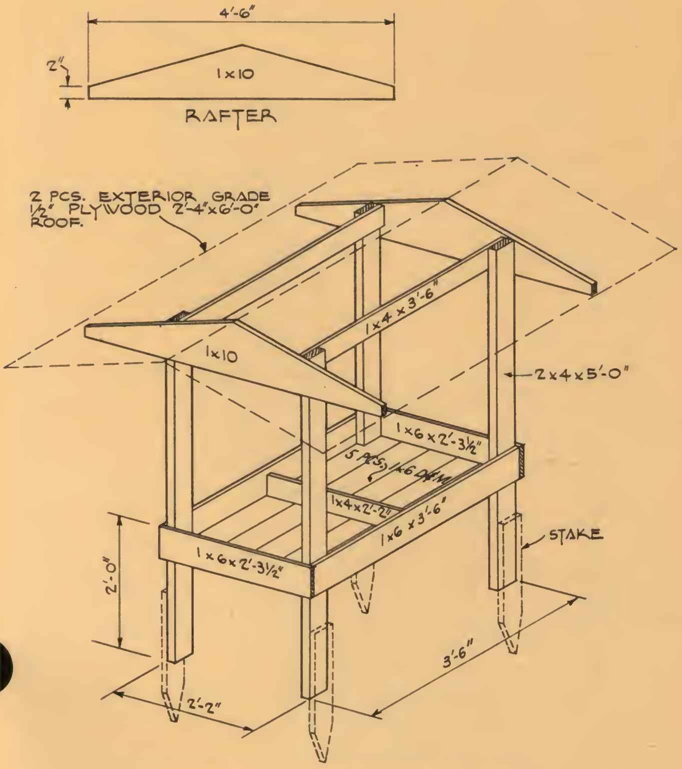
WORKING DRAWINGS



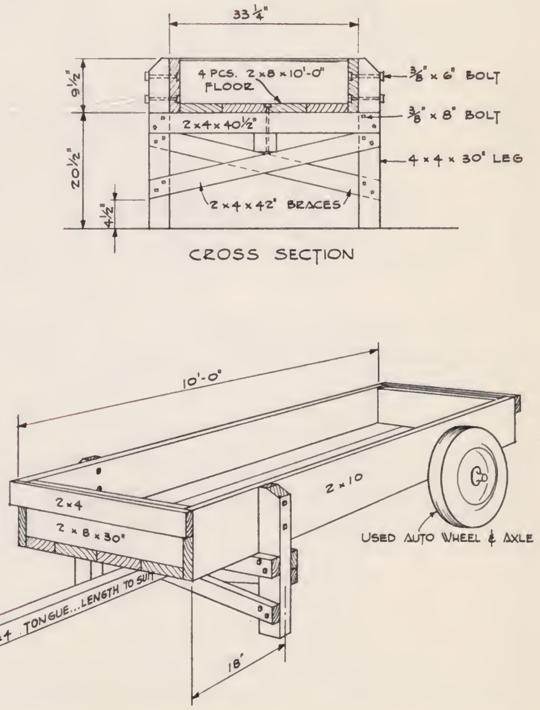
14' V-BOTTOM FEED BUNK
S-1115



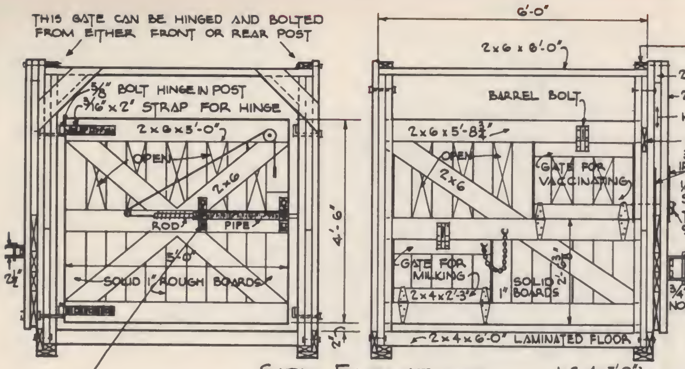
PORTABLE SELF FEEDER
S-1120



MINERAL FEEDING BOX
S-1121

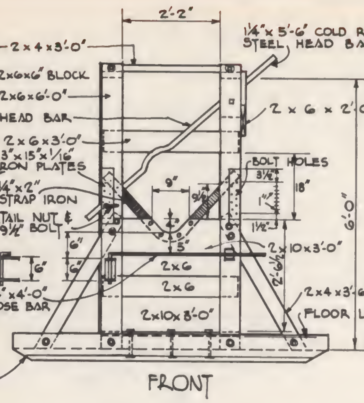


WHEEL-MOUNTED FEED BUNK
S-1124

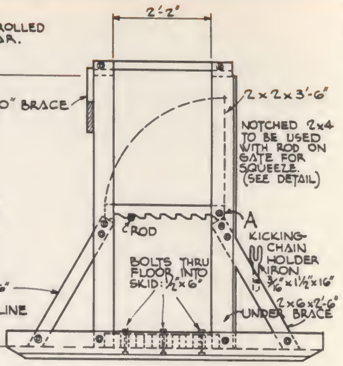


SIDE ELEVATIONS

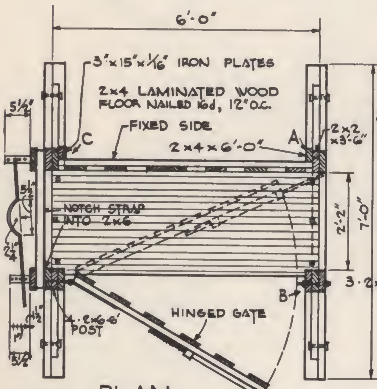
SEE LATCHING DETAIL ON SH. 2.



FRONT

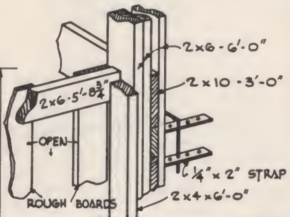

2'-2"
2x2x3'-6"
NOTCHED 2x4 TO BE USED WITH ROD ON GATE FOR SQUEEZE. (SEE DETAIL)
A
ROD
KICKING CHAIN HOLDER IRON 3/16"x1½"x16"
BOLTS THRU FLOOR INTO SKID: ½"x6"
2x6x2'-6" UNDER BRACE

REAR

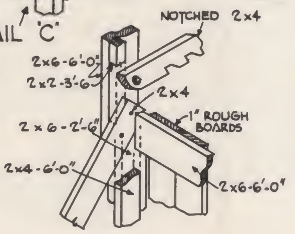


PLAN

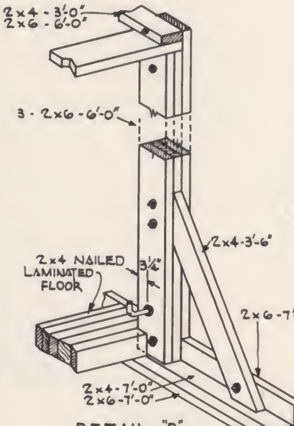
IN ORDER TO LOWER PLATFORM, SET SKIDS IN GRAVEL-FILLED TRENCH. SKIDS & PLATFORM MEMBERS TO BE TREATED LUMBER, OR GATE SHOULD BE KEPT UNDER ROOF.



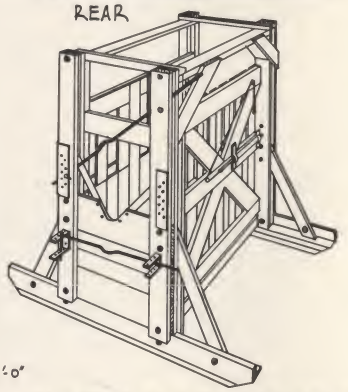
DETAIL "C"



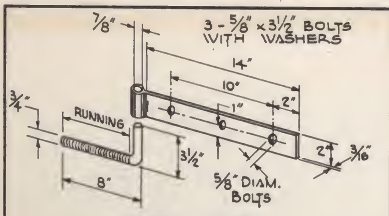
DETAIL "A"



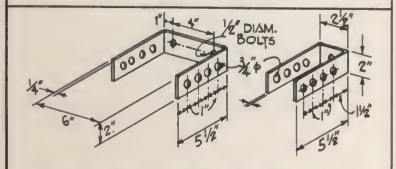
DETAIL "B"



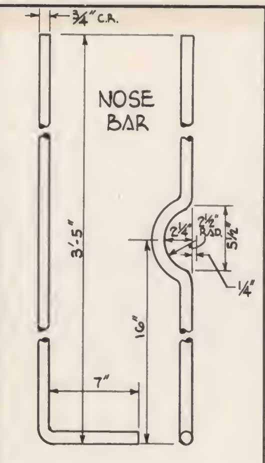
CATTLE SQUEEZE AND DEHORNING CHUTE
S-1118



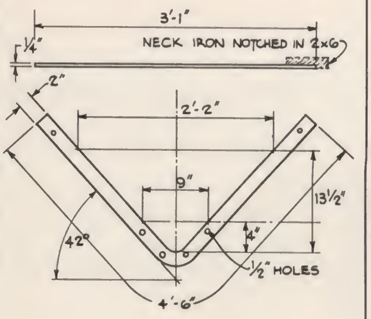
GATE HINGE



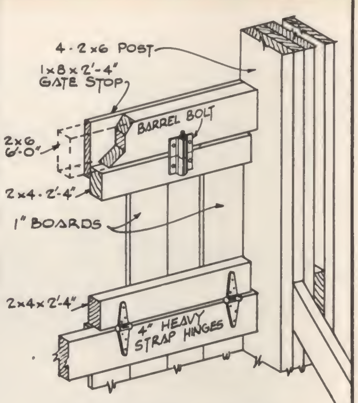
STRAP IRONS FOR NOSE BAR
1 EACH REQ'D.



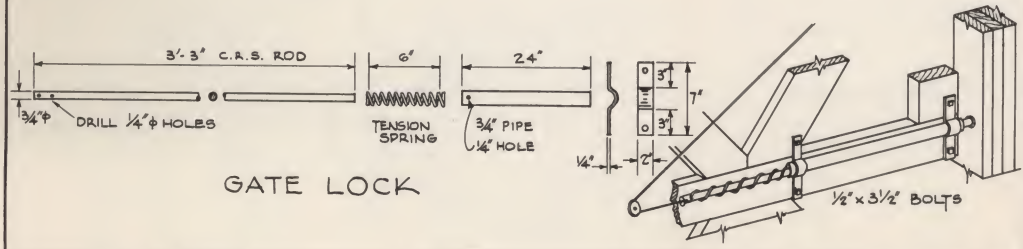
NOSE BAR



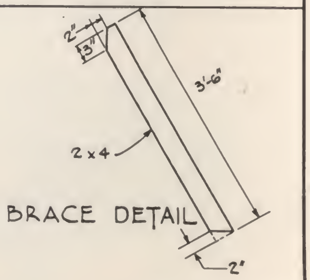
NECK IRON



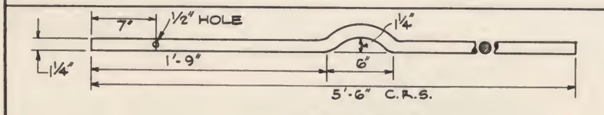
VACCINATION GATE



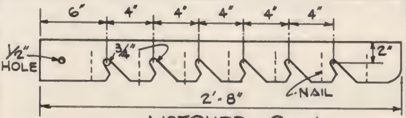
GATE LOCK



BRACE DETAIL

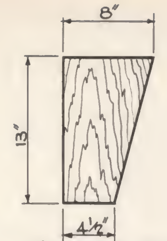


HEAD BAR

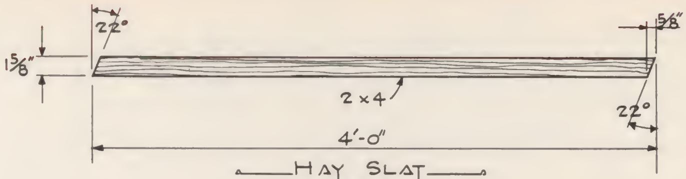


NOTCHED 2x4

WORKING DRAWINGS



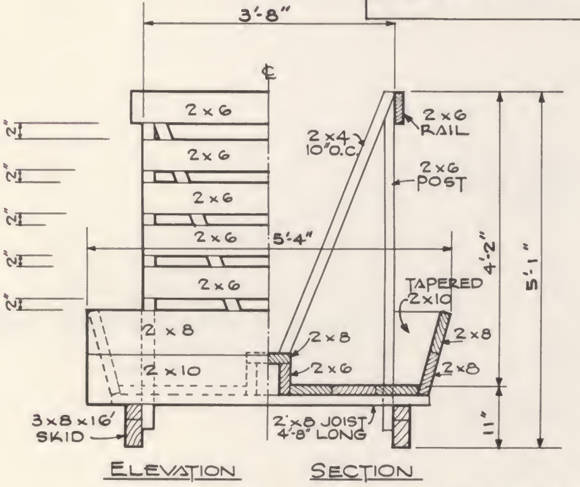
TAPERED 2x10
SIX REQUIRED

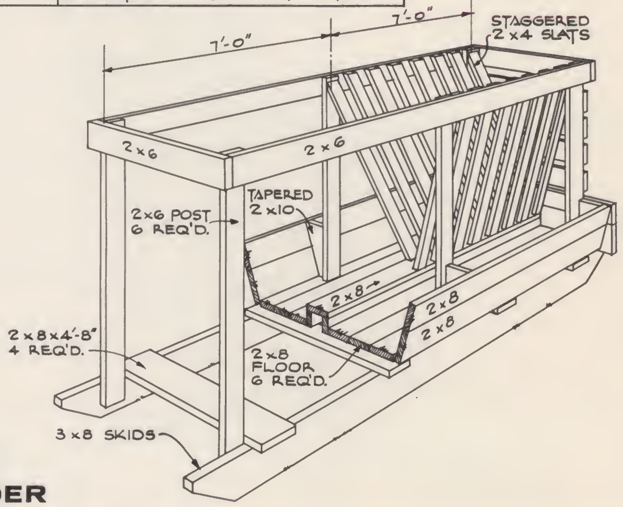


HAY SLAT
CUT 30 AS SHOWN;
CUT 3 TO FIT AT POSTS

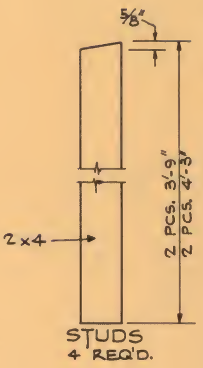
LUMBER LIST:

SKIDS	2 - 3x8 - 16'-0"	TROUGH	4 - 2x8 - 14'-0"
FLOOR	6 - 2x8 - 14'-0"	ENDS	2 - 2x10 - 5'-4"
DIVIDER	1 - 2x8 - 14'-0"		2 - 2x8 - 5'-4"
	2 - 2x6 - 14'-0"		2 - 2x6 - 4'-0"
POSTS	6 - 2x6 - 5'-0"		8 - 2x6 - 3-8"
JOISTS	4 - 2x8 - 4'-8"	TAPERED BLOCKS AS DETAILED	
		SLATS	33 - 2x4 - 4'-0"

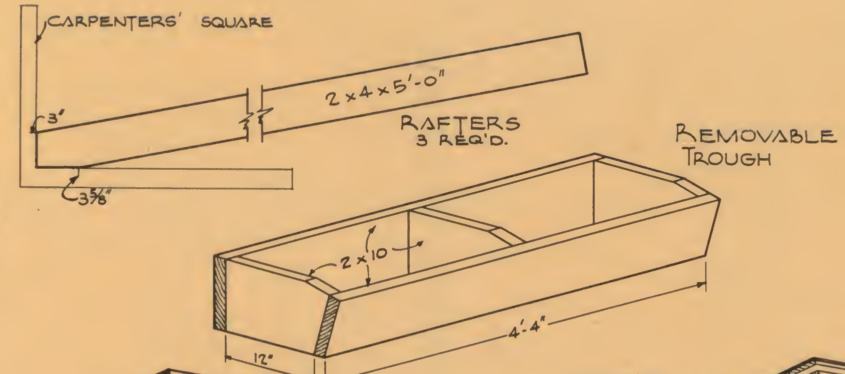


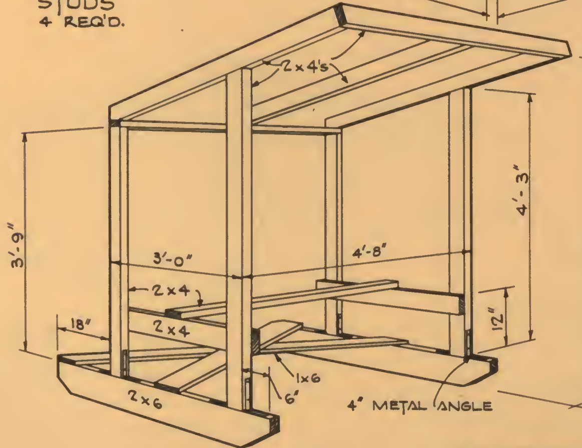


HAY AND SALVAGE FEEDER
S-1127

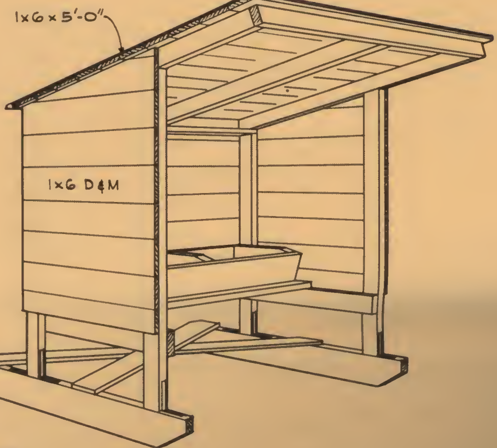


STUDS
4 REQ'D.



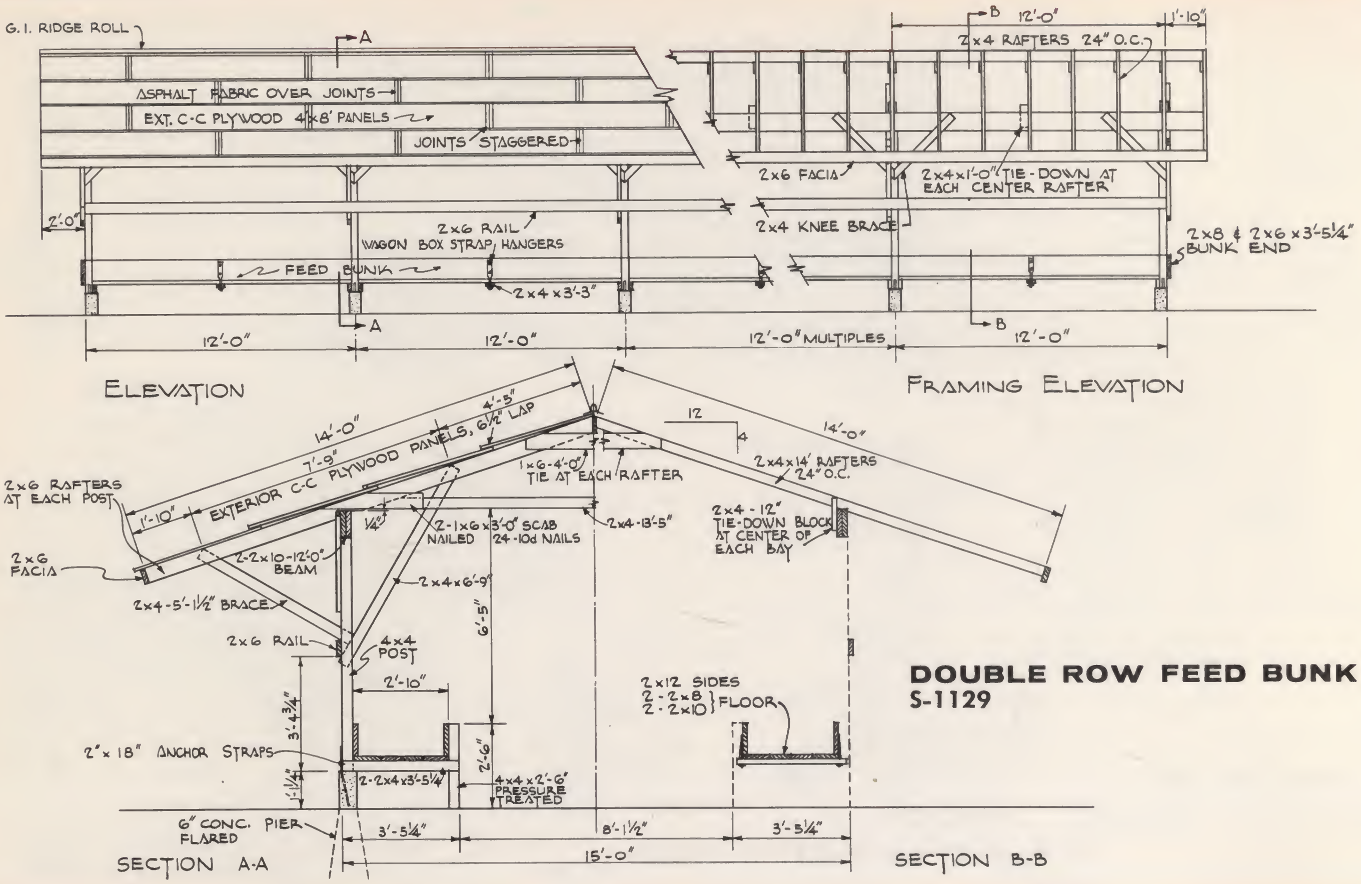


FRAMING DETAILS

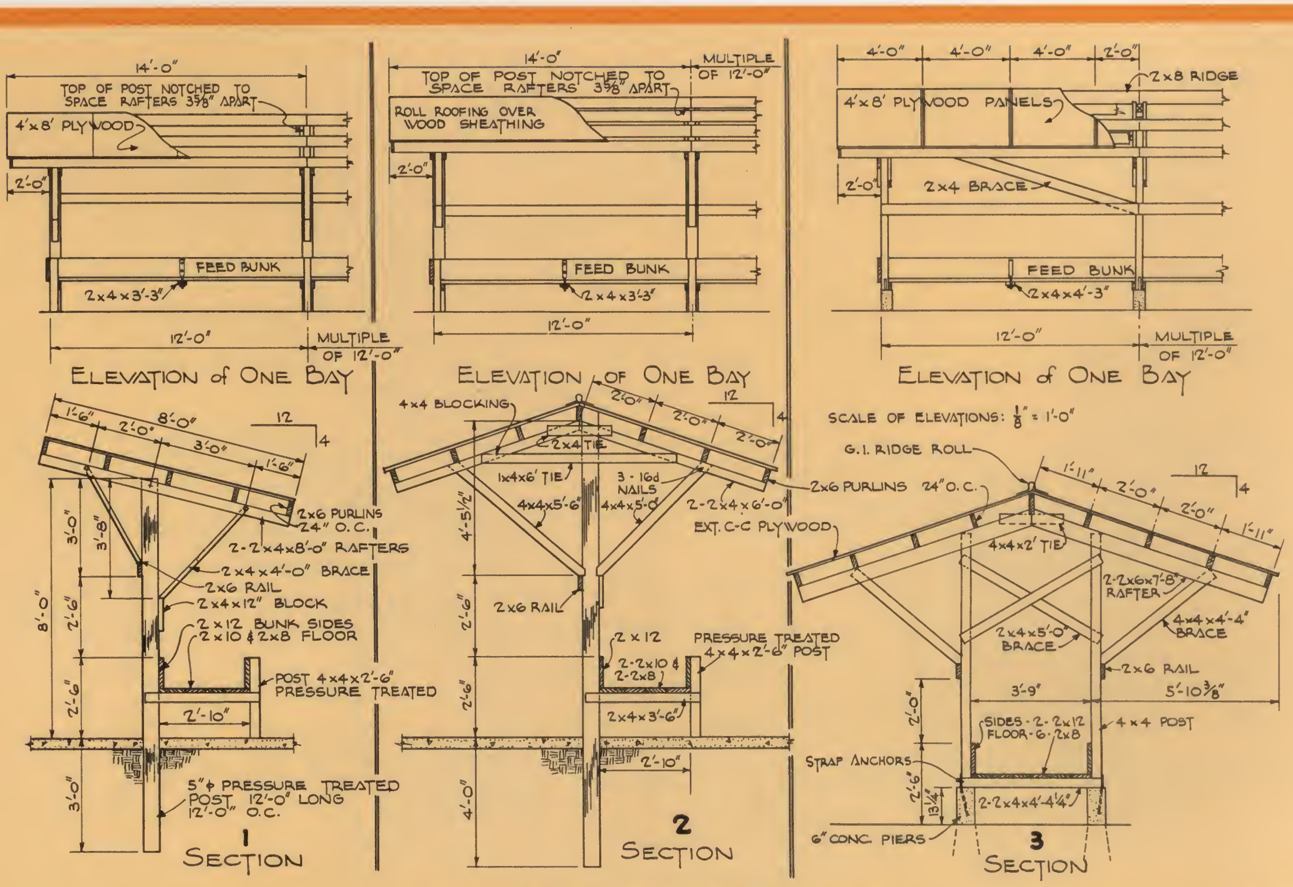


MINERAL FEEDER
S-1128

WORKING DRAWINGS

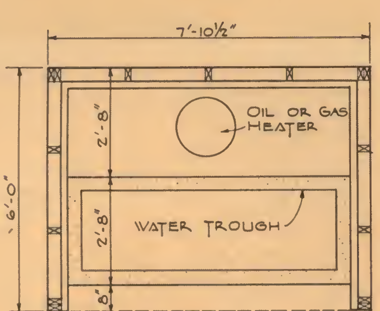


DOUBLE ROW FEED BUNK
S-1129

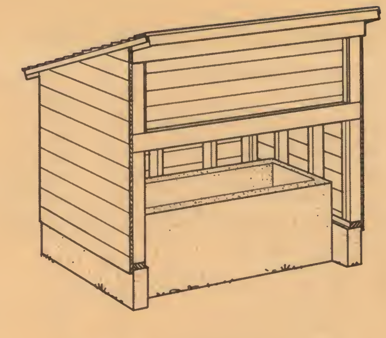


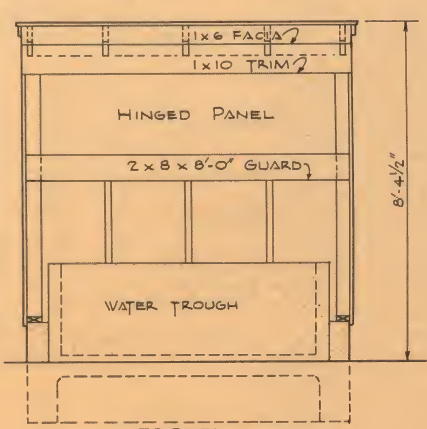
SINGLE ROW FEED BUNKS S-1130

WORKING DRAWINGS



PLAN





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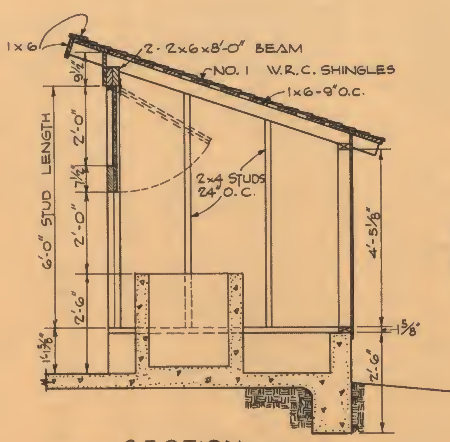
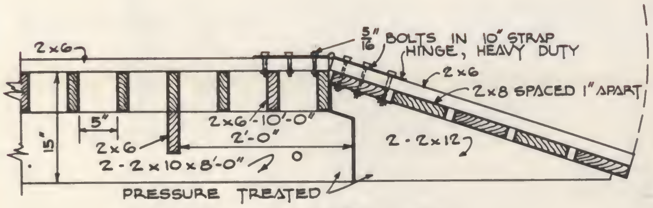


SECTION

WATER TROUGH SHELTER
S-1131



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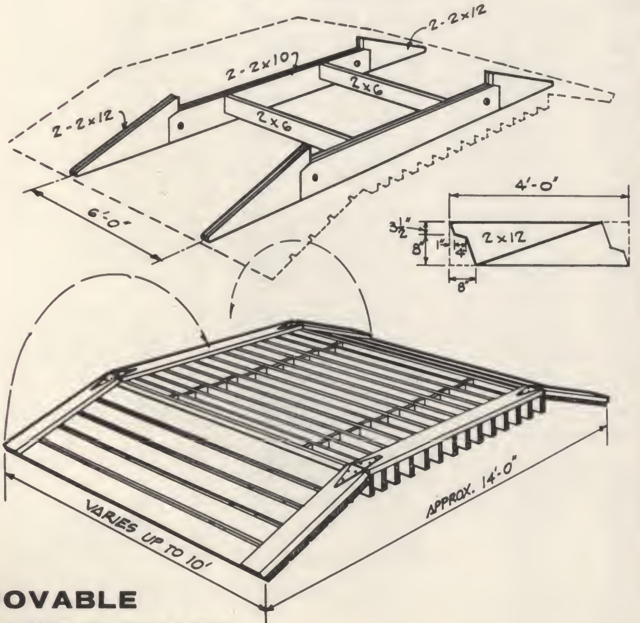
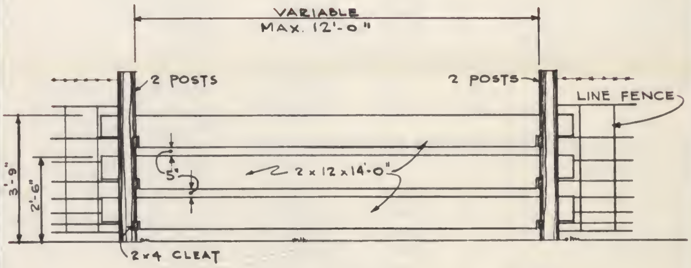
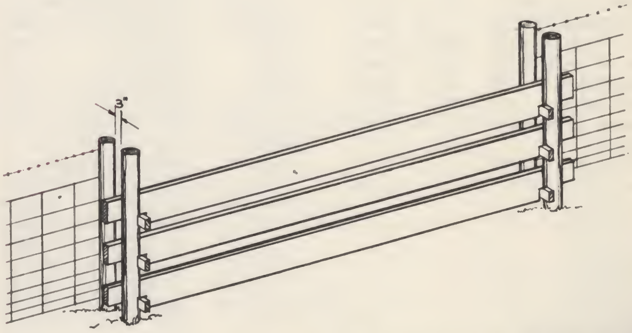


MOVABLE CATTLE GUARD
S-1132



ELEVATION



HORSE or CATTLE PASS
S-3229

S-1102 CATTLE STANCHION

Item	Pcs.	Size	Length
LUMBER			
Locking Member	1	2x4	1′-4″
Bottom Members	2	2x4	1′-2½″
Top Members	1	2x6	3′-0″
Vertical Members	1	2x4	4′-0″
	1	2x4	4′-2″
HARDWARE			
Bolts, Machine	8	½″	5½″
Chain		1½″x¼″	

S-1103 HAY, GRAIN & SILAGE FEEDING BUNK FOR CATTLE

Item	Pcs.	Size	Length
LUMBER			
Corner Supports	6	4x4	4′-0″
End & Ctr. Boards	12	2x6	4′-0″
Side Boards	8	2x6	16′-0″
	2	2x10	16′-0″
End Braces	2	1x4	4′-3″
Center Braces	1	1x4	5′-6″
HARDWARE			
Lag Screws	60	⅜″	4½″
or Bolts		⅜″	6″
FLOOR FOR FEEDING GRAIN & SILAGE			
LUMBER			
Floor	7	1x6	15′-8¾″
	1	1x10	15′-8¾″

S-1109 CATTLE FEED BUNK

Item	Pcs.	Size	Length
LUMBER			
Legs	4	4x4	2′-6″
Floor	4	2x8	10′-0″
Sides	2	2x10	10′-0″
End Protector	2	2x4	2′-9¼″
Ends	2	2x7⅞	2′-6″
Cross Braces	4	2x4	3′-4½″
Diagonal Braces	4	2x4	3′-6½″
HARDWARE			
Machine Bolts	24	⅜ x6	
	8	⅜ x8	

S-1110 CATTLE GUARD

Item	Pcs.	Size	Length
LUMBER			
Rails	14	2x8	12′-0″
Blocking	2	2x6	12′-0″
Beams	6	2x12	8′-0″
MASONRY AND HARDWARE			
Concrete	5.25	Cu. Yd.	(Walls
Nails	2#	16d	4′-6″
	2#	20d	High)

S-1112 CALF CREEP FEEDER FOR 25 CALVES

Item	Pcs.	Size	Length
LUMBER			
Skids	2	2x4	6′-0″
Skids	2	4x4	6′-0″
Studs-Corner	2	2x4	4′-0″
Studs-Corner	2	2x4	3′-6″
Studs-Feed Trough	2	2x4	4′-6″
Studs-Sloping Wall	3	2x4	4′-9″
Feed Floor Support	1	2x6	6′-0″
Feed Floor Support	1	2x4	6′-0″
Hopper Floor Support	1	1x6	5′-4¾″
Girts	2	2x4	6′-0″
Purlins	4	2x4	7′-0″
Purlin Supports	2	2x4	9″
Adjustable Plank	1	2x6	6′-0″
Side Walls D&M	28	1x6	6′-0″
Rear Wall D&M	14	1x6	4′-0″
Roof D&M	16	1x6	4′-9″
Roof D&M	16	1x6	3′-3″
Hopper Lining D&M	9	1x6	6′-0″
Adjustable Board	1	1x8	6′-0″
Slotted Board	2	1x4	2′-0″
Slotted Board (Blocking)	2	1x4	6″
Battens for Hinged Panel	3	1x4	1′-9″
Battens for Hinged Panel	2	1x4	3′-0″
Ridge Boards	2	1x4	7′-0″
Feed Trough Floor D & M	14	1x6	1′-11½″
Hopper Floor D&M	14	1x6	12½″
Front Feed Trough	14	1x6	6′-0″
HARDWARE			
Angle Irons	6	3½″x3½″x5/16″	3″
Bolts	8	½″	4″
Bolts	4	½″	3″
S-1112 (Continued)			
Bolts	2	½″	3½″
Tail Nuts & Bolts	2	½″	3½″
26 Ga. Galv. Iron	1	3″	6′-0″
Hinges-Strap	2	6″	
Nails	5#	8d Com.	
Nails	2#	16d Com.	

S-1113 CALF CREEP FEEDER FOR 50 CALVES

Item	Pcs.	Size	Length
LUMBER			
Skids	2	2x4	12′-0″
Skids	2	4x4	12′-0″
Studs-Corner	4	2x4	4′-0″
Studs-Trough	4	2x4	4′-6″
Studs-Trough Wall	6	2x4	4′-9″
Feed Floor Support	2	2x4	6′-0″
Feed Floor Support	1	4x4	6′-0″
Feed Floor Support (Blocking)	2	2x4	3½″
Hopper Floor Support	1	2x6	6′-0″
Girts	2	2x4	12′-0″
Purlins	7	2x4	7′-0″
Adjustable Planks	2	2x6	6′-0″
Side Wall D&M	56	1x6	6′-0″
Roof D&M	32	1x6	7′-0″
Hopper Lining D&M	20	1x6	6′-0″
Adjustable Boards	2	1x8	6′-0″
Slotted Boards	4	1x4	2′-0″
Slotted Boards (Blocking)	4	1x4	9″
Front Feed Trough	2	1x6	6′-0″
Battens for Fill Door	8	1x4	1′-6″
Purlin Support	2	1x6	4′-0″
Purlin Support	4	2x4	9″
Ridge Boards	2	1x4	7′-0″
Feed Trough Floor D&M	28	1x6	1′-11½″
Hopper Floor D&M	28	1x6	12½″
Cross Braces	4	2x4	3′-6″
HARDWARE			
Angle Irons	8	3½″x3½″x5/16″	3″
Angle Irons	4	5″x3½″x5/16″	3″
Bolts	8	½″	3″
Bolts	2	½″	5″
Bolts	16	½″	4″
Tail Nuts & Bolts	4	½″	3½″
26 Ga. Galv. Iron	3	3″	6′-0″
Hinges-Strap	4	6″	
Nails	7#	8d Com.	
Nails	3#	16d Com.	
Barrel Bolts	2	6″	

S-1114 CATTLE SELF FEEDER

Item	Pcs.	Size	Length
LUMBER			
Skids	4	2x6	16′-0″
Skids	2	2x4	16′-0″
Cross Pieces	7	2x4	5′-8¾″
Corner Posts	4	2x6	5′-0″
Corner Posts	4	2x4	5′-0″
Intermediate Posts	6	2x4	2′-2¾″
Intermediate Posts	6	2x4	8¼″
Intermediate Posts	6	2x4	1′-0⅞″
Hopper Studs	10	2x4	6′-0″
Hopper Wall Studs	4	2x4	5′-0″
Joists	5	2x6	6′-0″
Purlins	2	2x6	16′-0″
Rafters	12	2x4	5′-0″
Rafter Ties	10	1x6	2′-0″
Roof Boards	27	1x4	17′-0″
Trough Front	2	2x8	16′-0″
Hopper Ridge	1	2x6	16′-0″
Trough Cant Strip	2	2x2	16′-0″
HopperFloor D&M	72	1x6	1′-3″
Feeder Floor D&M	8	1x6	16′-0″
Feeder Floor (2x2 ripped diagonally)	1	2x2	16′-0″
Feeder Floor	1	2x2	12′-0″
HopperWallsD&M	18	1x6	16′-0″
End Walls D&M	28	1x6	5′-8¾″
Sliding Door Guide	2	1x4	5′-0″
Door Battens	2	1x4	2′-3″
Door Battens	3	1x4	3′-0″
Door Sill	1	2x4	4′-0″
Door Guide	2	1x2	1′-6″
Ridge Boards	2	1x4	17′-0″
Adjustable Slide Board	2	1x8	16′-0″
S-1114 (Continued)			
Slotted Board for Adjustment	4	1x4	2′-0″
Slotted Board (Blocking)	2	1x4	6″
Cross Braces	2	2x4	6′-6″
Shingles	7	Bundles	
HARDWARE			
Tie Rods	5	½″	6′-0″
26 Ga. Galv. Iron	3	3″	16′-0″
Tail Nuts & Bolts	4		
Barrel Bolts	2	4″	
Nails	4#	20d Com.	
Nails	4#	10d Com.	
Nails	4#	8d Com.	

S-1115 14′ V-BOTTOM CATTLE FEED BUNK

Item	Pcs.	Size	Length
LUMBER			
Legs	6	4x4	2′-6″
Braces	6	2x4	3′-9″
Plank Bottom	4	2x10	14′-0″
Sides	2	2x8	14′-0″
Ends	2	2x12	2′-9½″
Stops	8	2x2	8″
End Guard	2	2x4	3′-0¾″
HARDWARE			
Bolts	36	½″	6″
Wagon Box Rods	2	⅜″	3′-3″
Bottom Flashing-26 Ga. Galv. Iron	1	3″	14′-0″

S-1118 CATTLE SQUEEZE & DEHORNING CHUTE

Item	Pcs.	Size	Length
LUMBER			
Skids	4	2x6	7′-0″
Skids	2	2x4	7′-0″
Laminated Floor	18	2x4	6′-0″
Posts	11	2x6	6′-0″
Posts	1	2x6	2′-6″
Posts	1	2x2	3′-6″
Posts(NotchedBar)	1	2x4	2′-8″
Top Members	2	2x4	3′-0″
Top Members	2	2x6	6′-0″
Top Braces	2	2x6	2′-0″
Top Braces	2	2x6	1′-3″
Bottom Braces	4	2x4	3′-6″
Front Members	2	2x10	3′-0″
Front Members	3	2x6	3′-0″
Hinged Gate	3	2x6	5′-0″
Hinged Gate Braces	4	2x6	3′-0″
Hinged Gate (Rough)	6	1x6	4′-6″
Hinged Gate (Rough)	5	1x6	2′-6″
Fixed Side	3	2x6	5′-8¾″
Fixed Side Brace	1	2x6	3′-0″
Fixed Side Brace	1	2x6	3′-6″
Fixed Side S2E	6	1x6	4′-0″
Fixed Side S2E	5	1x6	2′-4″
Fixed Side-Gate Battens	4	2x4	2′-3″
Fixed Side-Gate Stop	1	1x8	2′-4″
Fixed Side-Gate Stop	1	1x6	2′-4″
HARDWARE			
Gate Hinge Bolts	4	See Details	
Gate Hinge Straps	2	See Details	
Gate Lock, Pipe	1	¾″	2′-0″
Rod, Spring, AnchorIrons,Bolts	1	See Details	
Head Bar	1	See Details	
Neck Iron	1	See Details	
Bolts & Washers	8	½″	5½″
Bolts & Washers	7	½″	4″
Bolts & Washers	6	½″	9″
Bolts & Washers	8	½″	6″
Bolts & Washers	4	½″	2½″
Strap Hinges-Small Gates	4	6″	
Nails	4#	16d Com.	
Nails	3#	7d Com.	
Steel Plates	4	1/16″x3″	1′-3″

S-1119 PORTABLE CALF PEN

Item	Pcs.	Size	Length
LUMBER			
Posts	2	2x4	6′-0″
	2	2x4	5′-0″
	2	2x4	4′-0″
Rafters	2	2x4	6′-0″

MATERIAL LISTS

S-1119 (Continued)

Item	Pcs.	Size	Length
Tie	1	2x4	4′-0″
Roof	13	1x6	6′-0″
Sides	2	1x6	9′-0″
	6	1x6	8′-0″
	18	1x6	4′-0″
Manger	1	1x6	8′-0″
HARDWARE			
Steel Straps	4	⅛″x1″	9″
Nails	4#	8d Common	

S-1120 PORTABLE SELF-FEEDER

Item	Pcs.	Size	Length
LUMBER			
Sides	1	1x12	42½″
Bottom	1	1x12	34½″
Rail & Cleats	3	1x4	36″
Slats	3	1x4	23″
	2	1x4	29″
Cover	1	1x6	36″
	2	1x4	36″
Cover Stop	1	1x2	11″
Cover Cleats	2	1x4	12″
Back-Treated Weytex	1	¼″x30″x36″	
Adjustment Piece-Treated Weytex	1	¼″x6″x12″	
Hanger-Exterior Grade Plywood	2	¼″x16″x6″	
HARDWARE			
Hinges	1 pr.	5″ Strap	
Carriage Bolts-Wing Nuts	2	⅜″x4″	

S-1121 MINERAL FEEDING BOX

Item	Pcs.	Size	Length
LUMBER			
Posts	4	2x4	5′-0″
Rafters	2	1x10	4′-6″
Rails	2	1x6	2′-3½″
	2	1x6	3′-6″
	2	1x4	3′-6″
	1	1x4	2′-2″
Floor-CM	5	1x6	3′-6″
Roof-Exterior Grade Plywood	2	½″	28″x72″

S-1124 WHEEL MOUNTED FEED BUNK

Item	Pcs.	Size	Length
LUMBER			
Legs	2	4x4	2′-6″
Bottom	4	2x8	10′-0″
Sides	2	2x10	10′-0″
Ends	2	2x8	2′-6″
End Protectors	2	2x4	2′-10″
Tongue	1	4x4	to suit
Braces	4	2x4	3′-6″
HARDWARE			
Bolts	8	⅜″	6″
	8	⅜″	8″
	2	¾″	6″

S-1127 HAY AND SILAGE FEEDER

Item	Pcs.	Size	Length
LUMBER			
Skids	2	3x8	16′-0″
Floor	6	2x8	14′-0″
Divider	1	2x8	14′-0″
	2	2x6	14′-0″
Posts	6	2x6	5′-0″
Joists	4	2x8	4′-8″
Trough	4	2x8	14′-0″
Ends	2	2x10	5′-4″
	2	2x8	5′-4″
	2	2x6	4′-0″
	8	2x6	3′-8″
Tapered Blocks	6	2x10	1′-1″
Slats	33	2x4	4′-0″
HARDWARE			
Nails	10#	16d Common	
	10#	8d Common	

S-1128 MINERAL FEEDER FOR CATTLE

Item	Pcs.	Size	Length
LUMBER			
Skids	2	2x6	5′-0″
Studs	2	2x4	3′-9″
Studs	2	2x4	4′-3″
Joists	2	2x4	3′-0″
Mineral Box Blocking	1	2x4	4′-4¾″
Plate	1	2x4	4′-8″
Header	1	2x4	4′-8″
Rafters	3	2x4	5′-0″
SHEATHING			
Walls D&M	20	1x6	3′-0″
Walls D&M	8	1x6	4′-9½″
Roof S4S	12	1x6	5′-0″

S-1128 (Continued)

Item	Pcs.	Size	Length
OTHER BOARDS			
Bracing	2	1x6	6′-0″
MINERAL BOX			
Ends & Partition	3	2x10	1′-2″
Front and Rear	2	2x10	4′-4″
Bottom	2	2x12	2′-0″
MISCELLANEOUS			
Angle Irons	8	4x4	1″
Screws	32	1¼″	
Nails	2#	16d Common	
Galv. Box	4#	7d	
Galv. Roofing	1#	1″	
	1#	8d Common	
Roll Roofing	30 Sq. ft.		

S-1129 DOUBLE ROW FEED BUNK

Item	Pcs.	Size	Length
LUMBER (Material for 36′ length)			
Posts	8	4x4	8′-0″
Lower Chord	4	2x4	14′-0″
Upper Chord	8	2x6	14′-0″
Rafters	34	2x4	14′-0″
Rafter Supports	4	2x10	12′-0″
Rafter Supports	8	2x10	14′-0″
Fascia	4	2x6	14′-0″
Fascia	4	2x6	12′-0″
Braces	8	2x4	12′-0″
Braces	12	2x4	4′-0″
Blocking	1	2x4	6′-0″
Rail	6	2x6	12′-0″
Ridgeboard	2	1x6	14′-0″
Ridgeboard	1	1x6	12′-0″
Gussets	4	1x6	12′-0″
Ties	25	1x6	4′-0″
Bunk Posts	2	4x4	10′-0″
Bunk Joists	6	2x4	7′-0″
Bunk Floor	12	2x8	12′-0″
Bunk Floor	12	2x10	12′-0″
Bunk Sides	12	2x12	12′-0″
Bunk Ends	1	2x8	7′-0″
Bunk Ends	1	2x6	7′-0″
Roof Exterior Plywood	40	⅜″x4′x8′	
HARDWARE			
Ridge Roll	40 lin. ft.		
Strap Hangers with Bolts	12	⅛″x2″x16″	
Anchor Straps	8	¼″x2″x18″	
Lag Screws	16	5/16″x4″	
Nails	7#	16d Com.	
	7#	10d Com.	
	5#	8d Com.	
	10#	6d Galv. Box	
LUMBER (Material for 12′ section)			
Posts	2	4x4	8′-0″
Lower Chord	1	2x4	14′-0″
Upper Chord	2	2x6	14′-0″
Rafters	10	2x4	14′-0″
Rafter Support	4	2x10	12′-0″
Fascia	2	2x6	12′-0″
Braces	2	2x4	12′-0″
Braces	4	2x4	4′-0″
Blocking	2	2x4	1′-0″
Rail	2	2x6	12′-0″
Ridge Board	1	1x6	12′-0″
Gussets	1	1x6	12′-0″
Ties	7	1x6	4′-0″
Bunk Posts	1	4x4	5′-0″
Bunk Joists	2	2x4	7′-0″
Bunk Floor	4	2x10	12′-0″
Bunk Floor	4	2x8	12′-0″
Bunk Sides	4	2x12	12′-0″
Roof Exterior Plywood	12	⅜″x4′x8′	
HARDWARE			
Ridge Roll	12 lin. ft.		
Strap Hangers with Bolts	4	⅛″x2″x16″	
Anchor Straps	2	¼″x2″x18″	
Lag Screws	4	5/16″x4″	
Nails	3#	16d Com.	
	3#	10d Com.	
	2#	8d Com.	
	3#	6d Galv. Box	

S-1130 SINGLE ROW FEED BUNK

Item	Pcs.	Size	Length
LUMBER (Material for 36′ length)			
Posts	4	5″ dia.	14′-0″
Knee Braces	4	4x4	12′-0″
Ties	8	1x4	6′-0″
Ties	1	2x4	16′-0″

S-1130 (Continued)

Item	Pcs.	Size	Length
Rafters	16	2x4	6′-0″
Purlins	7	2x6	12′-0″
Purlins	14	2x6	14′-0″
End Trim	2	1x6	12′-0″
Roof Sheathing		520 sq. ft.	
Rail	3	2x6	12′-0″
Blocking	1	2x4	4′-0″
Bunk Posts	1	4x4	10′-0″
Bunk Joists	3	2x4	12′-0″
Bunk Sides	6	2x12	12′-0″
Bunk Floor	6	2x10	12′-0″
Bunk Floor	6	2x8	12′-0″
Bunk Ends	1	2x8	8′-0″
Bunk Ends	1	2x6	8′-0″
MISCELLANEOUS			
Ridge Roll		40 lin. ft.	
Strap Hangers with Bolts	6	⅛″x2″x16″	
Nails	8#	16d Com.	
	5#	10d Com.	
	10#	8d Box	
Roll Roofing		520 sq. ft.	
LUMBER (Material for 12′ section)			
Posts	1	5″ dia.	14′-0″
Knee Braces	1	4x4	12′-0″
Ties	2	1x4	6′-0″
Ties	1	2x4	4′-0″
Rafters	4	2x4	6′-0″
Purlins	7	2x6	12′-0″
Roof Sheathing		160 sq. ft.	
Rail	1	2x6	12′-0″
Bunk Posts	1	4x4	2′-6″
Bunk Joists	1	2x4	12′-0″
Bunk Sides	2	2x12	12′-0″
Bunk Floor	2	2x10	12′-0″
Bunk Floor	2	2x8	12′-0″
Blocking	1	2x4	1′-0″
MISCELLANEOUS			
Ridge Roll		12 Lin. ft.	
Strap Hangers with Bolts	2	⅛″x2″x16″	
Nails	3#	16d Com.	
	2#	10d Com.	
	3#	8d Box	
Roll Roofing		160 sq. ft.	

S-1131 WATER TROUGH SHELTER

Item	Pcs.	Size	Length
LUMBER			
Plates	2	2x4	6′-0″
	2	2x4	8′-0″
Beam	2	2x6	8′-0″
Studs	8	2x4	6′-0″
	7	2x4	5′-0″
Rafters	5	2x4	8′-0″
Guard Rail	1	2x8	8′-0″
Siding CM		1x6	160FRM
Roof Sheathing	13	1x6	8′-0″
Trim	1	1x10	8′-0″
	2	1x6	8′-0″
	2	1x3	8′-0″
Door Cleats	3	1x4	8′-0″
	1	1x4	4′-0″
W.R.C. Shingles	3	bundies	
HARDWARE			
Hinges	1½ pr.	8″ Butts	
Nails	2#	16d Common	
	2#	8d Common	
	2#	7d Galv.	
	1#	3d Galv. Box	
Masonry	3 cu. yd.		

S-1132 MOVABLE CATTLE GUARD

Item	Pcs.	Size	Length
LUMBER			
Joists	14	2x6	10′-0″
Ramp	10	2x8	10′-0″
Ramp Supports	4	2x12	4′-0″
Joist Supports	4	2x10	8′-0″
Braces	2	2x6	6′-0″
Bridging	2	2x6	8′-0″
Hinge-Cleats	2	2x6	8′-0″
Hinge-Cleats	4	2x6	3′-6″
HARDWARE			
Bolts	12	5/16″x3″	
	12	5/16″x4″	
Strap Hinges H.D.	4	10″	
Nails	5#	16d Common	

S-3229 HORSE OR CATTLE PASS

Item	Pcs.	Size	Length
Posts	4	5″ dia.	6′-6″
Cleats	6	2x4	1′-0″
Gate	3	2x12	14′-0″

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